

The

AMERICAN RIFLEMAN



THE PUBLIC LIBRARY,
WOODWARD & KIRBY AVE.,
DETROIT, MICH.

Published By
The National Rifle Association of America
Incorporated 1871

JULY, 1935

25 CENTS



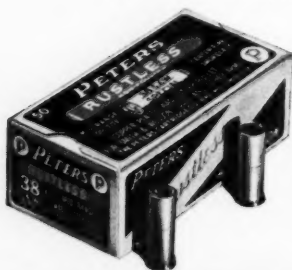
TWO MORE LEAGUE CHAMPIONSHIPS

FOR FAMOUS
LOS ANGELES POLICE

• with PETERS .38 SPECIAL and PETERS .22 FILMKOTE

TWO more "firsts" for that Los Angeles Police Team, the invincibles of handgun competition! Winners of the U. S. R. A. Indoor .38 and .22 Revolver League matches. 11,269 points in the .38 Revolver League—a margin of 67 points over the nearest team, also tying the record one week with a score of 1,148. Then 12,663 points in the .22 Revolver League, 321 points above the next team! It is significant that every member of this world-famous team used Peters Ammunition.

THE PETERS CARTRIDGE COMPANY
Dept. G-26, Bridgeport, Conn.



The Los Angeles Police Team. Top Row—M. E. Wheeler, Lee Young, J. J. Engbrecht, R. J. Nowka, C. E. Ward. Lower Row—Chief of Police James E. Davis, J. A. Bartley, Emmet Jones, B. L. Starkey, W. P. Johnson.

OTHER OFFICIAL RECORDS WITH PETERS CARTRIDGES

N. R. A. PISTOL TEAM MATCH
NATIONAL COURSE
Los Angeles Police
1389 x 1500

(TIE) INDIVIDUAL RECORD
NATIONAL COURSE
R. J. Nowka
285 x 300

N. R. A. PISTOL TEAM MATCH
POLICE COURSE
Los Angeles Police
1421 x 1500

INDIVIDUAL RECORD
POLICE COURSE
Mark E. Wheeler
297 x 300

U. S. R. A. MATCH B
ANY PISTOL
Thos. Anderton
480 x 500

U. S. R. A. MATCH C
MILITARY RAPID FIRE
J. J. Jorgensen
439 x 500

U. S. R. A. MATCH E
WINANS MILITARY RAPID FIRE TEAM
MATCH
Los Angeles Police
850 x 1000

U. S. R. A. MATCH G
NOVICE
Mrs. Lillian Stuart Chase
237 x 250

U. S. R. A. MATCH S-22
.22 CAL. REVOLVER
H. D. Shierman
282 x 300

U. S. R. A. MATCH I
FREE PISTOL
Ray C. Bracken
532 x 600

ARMY "L" TARGET
Los Angeles Police
Record Score
1492 x 1500

PETERS

DU PONT
REG. U. S. PAT. OFF.

PRECISION



★
AT POUGHKEEPSIE
.... **HELD**

Wins Again
AS LAST YEAR
on the Hudson

★
AT PEEKSKILL
... **BREULER**



MORE BIG EASTERN MATCHES Won With PRECISION EZXS

POUGHKEEPSIE (N. Y.) RIFLE CLUB, May 18-19. Sixty-five contestants. Hudson Valley Championship, P.R.C. Dewar Match and Grand Aggregate, all three won by Clarence C. Held, Allentown, Pa., with Winchester Precision EZXS. Scores 584x600, 394x400 and 978x1000 respectively. Dewar 50-yd. optional won by William Breuler of Quinpiac Rifle & Revolver Club, New Haven, Conn. Score 198-8 with EZXS. 50-yd. and 100-yd. Optional Match won by D. Carlson, New Haven, Conn., with 200-13Xs + 196-9Xs = 396, with EZXS. 50-yd. Re-entry and 200-yd. Re-entry won by M. R. Gwilliam, Bloomfield, N. J., scores respectively 400-26Xs and 371x400, with EZXS.

PEEKSKILL, N. Y. Camp Smith, New York State Rifle Assn's Annual Meet, June 8, 9. 50-yard Short Range Iron Sights Match (39 entries), Individual Dewar Match and Froment Grand Aggregate for Iron Sights, all three won by William Breuler, New Haven, Conn., shooting EZXS. Scores 100-8 (shoot-off), 399 and 599x600, respectively. 50-yd. Short Range Telescopic Sight Match, S. J. Vitano, Brooklyn, N. Y., tied for first with 100-9Xs, finished runner up in shoot-off, shooting EZXS. General Spencer Match won by J. L. Polk, Troy, N. Y., 100-6Xs and shoot-off with William Breuler, using EZXS. Major Wingate Trophy Team Match won by Quinpiac Rifle & Revolver Club's 4-man team, New Haven, Conn., 779x800 with EZXS. General Dyer Match (25 entries) won by George Scudder, Binghamton, N. Y. 100-8Xs, with EZXS.

AT WASHINGTON, NEW KENSINGTON, ATLANTA

Camp Simms, D. C. National Capital Small Bore Tournament May 17-19. National Capital Free Rifle Championship (three positions, Iron Sights) won by Frank Parsons, Jr., Washington. Score 272 with Precision EZXS. Second, William Thelen, Detroit, Mich., with 267, shooting Precision EZXS.

New Kensington, Pa. Allegheny Valley Rifle Assn. Matches, May 30. Dewar Match with Iron Sights won by J. W. Crolley, New Kensington, 395-21Xs, shooting EZXS. Dewar Match with Any Sights won by Alex Webster, New Brighton, Pa., 398-23Xs with EZXS. Two man Team Match, Iron Sights, highest individual score shot by Alex Webster of winning New Brighton team, 396; next highest J. W. Crolley of second team, 395. Both used EZXS.

Atlanta, Ga. Annual shoot for George Gould Memorial Trophy, June 8, won by Charles G. Hamby, 200-12Xs and 100-6Xs in shoot-off, using EZXS.

WINCHESTER REPEATING ARMS COMPANY
NEW HAVEN CONN., U. S. A.

MIDDLE WEST

Steubenville, Ohio. Steubenville Rifle & Pistol Club Matches, June 2. Dewar Match won by R. F. Carrothers, New Philadelphia, Ohio, with a perfect score, 400x400-19Xs, six points over the next competitor, with Precision EZXS.

Frankfort, Ind. Frankfort Rifle Club Tournament, June 2. Grand Aggregate won by Frank Russell, Plainfield, Ind., with EZXS.

MAKE 1935 YOUR RECORD YEAR BY SHOOTING PRECISION EZXS

Marksman desiring information in connection with the use of Winchester Rifles and Ammunition are invited to write to Major J. W. Hession, Manager Winchester Shooting Promotion Division.



WINCHESTER
TRADE MARK
MATCH AMMUNITION

SPOTTING



W. W. Harding, using the B & L N.R.A. Spotting Scope in the 1932 Olympics.

Draw Tube Scope



● In almost every match, only a few points separate the winner from the bulk of the field. A fine scope frequently will give a shooter the ability to squeeze out those extra winning points. The Bausch & Lomb N.R.A. Spotting Scope (at right), designed and built only after consulting scores of eminent riflemen, is recognized as the finest shooting aid ever built. Equipped with a 19.5 power eyepiece it costs but \$55. Metal Tripod as shown, \$10.50 extra. ● In a lower price class is the Draw Tube Scope, (above) designed particularly for small-bore shooting, a service for which the ordinary medium-priced scope is unsuitable. With 20X eyepiece, \$30. ● Both B & L Scopes are featured by a special micrometer focusing adjustment that provides for push-pull coarse adjustment and screw fine adjustment.

Edward C. Crossman, Jr., using the B & L Draw Tube Scope.



Shots in the Black **AT 350 YARDS**



The *N.R.A. Spotting Scope.*

● It takes a good scope to show shots in the black at 350 yards. A recent letter from Major Wm. E. Trull says, "At the Camp Simms shoot held in Washington in May, from about 350 yards I was able to determine the winner before any report was made." This ability to render fine detail sharp and clear is one of the things that have made Bausch & Lomb Spotting Scopes popular with shooters and coaches everywhere.

Binoculars

● For use on the range, and for all sports events, B & L Binoculars are unmatched. Priced from \$66.



Write for free literature.

BAUSCH & LOMB OPTICAL COMPANY

127 LOMB PARK
ROCHESTER, N.Y.

COLT OFFICERS' MODEL TOPS ARMY L MATCHES



LOS ANGELES POLICE TEAM BEATS WORLD RECORD BY 18 POINTS! EVERY MAN SHOOTS A COLT

Chief J. E. Davis and Coach R. J. Nowka of the Los Angeles Police Department may well be proud of the remarkable scores turned in at the recent California Army L Target matches by their revolver team. Colt is also proud that every man on the team made his score with a Colt Officers' Model.

The new heavy-barreled Officers' Model is steadier, more accurate, and better balanced than ever. There is no gun like it for target shooting! When competition is keen, features such as its velvety-smooth, hand-finished action; super-precision barrel; stippled-frame top; "Kelly" sights, sand-blasted to eliminate glare; non-slipping trigger; and large, comfortable grip—all help to give that extra something which consistently wins match after match. The Standard Officers' Model with the lighter barrel is available, too, for those who prefer it to the heavier model.

Are you shooting an Officers' Model? Are you using the gun that makes champions—and keeps them at the top? Decide right now to boost your target scores . . . with America's Premier target revolver.



OFFICERS' MODEL

TARGET REVOLVER

CALIBER .38 SPECIAL SPECIFICATIONS

Caliber .38 Special, "Patridge" or "Bead" sights. Front sight adjustable for elevation; rear sight for windage. Full-blued finish, top and back of frame stippled to prevent glare. Checked Walnut stocks. Checked trigger and back strap. Five barrel lengths in .38 caliber; heavy barrel in 6" length only. Length over all with 6" barrel 11 1/4". Weight with 6" standard barrel 34 oz., with heavy barrel 36 oz.

SPECIFICATIONS Caliber .22 Long Rifle

The Officers' Model in .22 caliber is furnished with regular standard barrel, 6" length only. Weight 38 oz. Furnished with embedded head cylinder.



COUNT THE COLTS
on the
FIRING LINE

Colt's Patent Fire Arms Mfg. Co.,
Hartford, Conn.

I'm interested in target arms. Send me full details on the Officers' Model and your other target models.

Name

St. & No.

City State

R-35

COLT'S PATENT FIRE ARMS MFG. CO. HARTFORD, CONNECTICUT

Phil B. Bekeart Co., Pacific Coast Representative, 731/Market Street, San Francisco, California

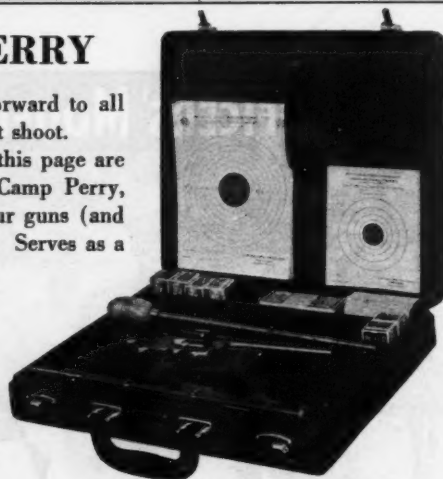
PREPARE NOW FOR CAMP PERRY

Now is the time to prepare for that trip you have looked forward to all year—the trip to Camp Perry, Ohio, to attend the world's biggest shoot.

These Hartmann gun cases and the other items mentioned on this page are an essential part of every shooter's equipment. Especially at Camp Perry, you'll find the Hartmann gun case of real value. It protects your guns (and shooting equipment), keeps them safe, intact, and free from dirt. Serves as a handy carrying or shipping case, too.

The Two-Gun Pistol Case comes equipped with blocks made to order for your two favorite revolvers or pistols. The rifle case is manufactured exclusively for the popular Winchester 52 Target or Sporter (specify which), but you can rearrange the blocks and make the case take any rifle with or without scope sight attached.

All Hartmann gun cases are made of tough imitation leather, jet black, with nickel-plated locks and hinges. They are quality cases, unconditionally guaranteed to give the service and satisfaction you expect. The Two-Gun Pistol case costs \$7.50 (f.o.b. factory). The Rifle Case sells for \$12.00 (f.o.b. Washington). Send orders with remittance to the N. R. A. Be sure to specify the model of your guns.



Other Items You'll Need at Perry (We pay postage on all these)

N. R. A. Official Trigger Weights for rifle	each, \$2.00
(Tests 3 lb. only)	
For all guns	each, \$2.50
(Tests 2 to 4 lbs.)	
N. R. A. Radiator Emblems	each, \$1.00
(For your auto "Crossbar" or "Wire" attachment)	
N. R. A. ammunition blocks	each, .50
(Will hold 50 22 Lr. cartridges)	
N. R. A. "Life" and "Annual" member felt brassards	each, .50
(To sew on your shooting coat)	
N. R. A. Life Members Lapel Pin	each, \$2.50
(10-K solid gold)	
N. R. A. Official Loose Leaf Score Books	each, .50
(Complete with sheets for all ranges)	
Deluxe Rifleman Binders	each, \$1.95
(Holds 12 copies)	

AND DON'T FORGET—AN N. R. A. MEMBERSHIP

Something else every shooter will want at Camp Perry is a membership in the N. R. A. Most of the matches to be fired there are open to all comers, but the entry fee to members of N. R. A. is always considerably less than is the fee to non-members. Even though you enter only three matches, the savings at the member's entry fee rate will pay for a year's membership. Furthermore, as a member you can travel to Perry at the special fare and one-third round-trip rate, should you wish to make the trip by train.

These are but two of the many reasons why every shooter who plans to attend the big National Matches should join the N. R. A. NOW. Other benefits you will enjoy as a member include a year's subscription to the good old RIFLEMAN; the privilege of purchasing government rifles and ammunition from the War Department; support of the N. R. A. movement to prevent the passage of unsound anti-gun laws.

Use the application below if you are not now a member. Use it to sign up a new member or to renew your own membership if you already are on the rolls.

NATIONAL RIFLE ASSOCIATION,
Barr Building,
Washington, D. C.

7-35

I believe in the aims and purposes of the N. R. A. and desire to support the good work as well as to avail myself of its services to members.

I certify that I am a citizen of the United States over 18 years of age.

Attached is remittance of \$3.00 for annual active membership.

Please send me a membership card, one of the sterling "annual member" lapel buttons, one of the latest price lists and enter my subscription to begin with the next issue.

☐ Please check here if remittance attached covers renewal of your own membership.

MY NAME _____ STREET _____

CITY _____ STATE _____ AGE _____

I am glad to recommend the above applicant as a sportsman and citizen of good character.

NAME _____ TITLE _____ OR MEMBER ☐ ANNUAL ☐ LIFE

ADDRESS _____

The AMERICAN RIFLEMAN

VOL. 83, No. 7

JULY, 1935

N. R. A. SERVICE

LEGISLATIVE DIVISION: Looks after the interests of the shooters in Congress and State Legislatures, carries on the organized fight against unsound anti-gun laws, encourages legislation for the aid of civilian rifle practice and assists members to obtain permits to carry firearms to and from a range in states requiring such permits.

THE AMERICAN RIFLEMAN: This magazine is the official monthly publication of the N. R. A., and as such is "The Voice of the N. R. A." Non-political and non-sectarian in policy and free from commercial domination, it can and does speak freely, frankly and with authority on all shooting matters.

TECHNICAL DIVISION: Helps members with their personal shooting problems, reports in THE AMERICAN RIFLEMAN each month practical tests and critical examinations of new guns and equipment, and gives by personal letter advice on the selection of the right gun for a specific purpose, reloading, restocking, etc.

CLUB SERVICE DIVISION: Assists shooters in organizing local rifle and pistol clubs, furnishes detailed diagrams for the construction of regulation indoor and outdoor ranges, suggests a varied program and competition to keep up the interest of members, and generally assists affiliated units by passing along the successful experiences and ideas of other clubs.

MEMBERSHIP EXTENSION: Operates as a service division by furnishing members with sales literature and printed information so that they may explain to fellow sportsmen the value and benefits of N. R. A. membership and, moreover, because increased membership means an extension of N. R. A. service, it serves to benefit members in this way.

COMPETITIONS DIVISION: Conducts a year-round program of home-range matches in which members may win distinctive medals while practicing at home with rifle and pistol, aids state associations and civilian clubs in planning and conducting regional, state and local shooting matches, and gives members helpful personal advice on their individual target-shooting problems.

JUNIOR DIVISION: Provides individual and club memberships for junior shooters, boys and girls alike; conducts a year-round program of competitive and qualification shooting, and teaches Young America how to handle firearms safely and properly. No father should hesitate to support its good work.

POLICE DIVISION: Assists police departments in marksmanship training of their officers. Through the Association's far-flung contact and with the aid of experienced hands to carry on the work, this division is performing a public service which warrants the support of every good citizen.

PUBLICITY DIVISION: Endeavors to educate the American public through the public press to the fact that the man who likes to shoot is not a criminal and, although its services are intangible in character, it represents an important chain in the campaign "to make America, once again, a Nation of Riflemen."

Officers of THE NATIONAL RIFLE ASSOCIATION OF AMERICA

KARL T. FREDERICK
President

GUSTAVUS D. POPE, First Vice-President

MAJ. L. W. T. WALLER, JR.
Second Vice-President

LT. COL. N. C. NASR, JR.
Third Vice-President

MAJ. GEN. M. A. RECKORD C. B. LISTER
Executive Vice-President Secretary-Treasurer

CONTENTS

	PAGE
Cover Photo	
Charles Askins, Jr., of Strauss, New Mexico (left) and Thomas Boles, Superintendent of Carlsbad Caverns National Park, inspect a rapid-fire revolver target shot by Mr. Askins. Photo by H. C. Kennicott.	
Powder Smoke	6
My First Gun	7
By E. A. BRININSTOOL	
Rest-Shooting	8
By HARVEY A. DONALDSON	
Duck Guns and Duck Shooting in the Old Days	13
By CHARLES ASKINS (Concluded from May Issue)	
Accuracy of the Muzzle-Loading Rifle	17
By WALTER M. CLINE	
Farewell to Adapters	20
By F. C. NESS	
Take Care of Your Rifle!	22
By WILFRID ROBERTSON	
The Passing of the Old Tin Box	23
By E. D. SEYMOUR	
Letters of a Self-Styled "Marksman" to His Son	24
By P. L. AINFELLOW	
Short Articles	28
N. R. A. News Items	35
Dope Bag	44
Arms Chest	53

Published monthly by the National Rifle Association of America, Barr Building, Washington, D. C.—C. B. Lister, *Managing Editor*; L. J. Hathaway, *Editor*; F. C. Ness, L. Q. Bradley, *Associate Editors*; F. A. Moulton, *Advertising Manager*. 25c per copy. By subscription \$3.00 a year in U. S. and Possessions; foreign \$3.60. Entered as second-class matter, April 1, 1908, at the Post Office at Washington, D. C., under Act of March 3, 1879. Thirty days' notice required for change of address. Copyright, 1935, by the National Rifle Association of America.

POWDER SMOKE

"THE ORDER OF THE PENGUINS"

ALTHOUGH the club is right here in our home town, the call of out-of-town shoots has prevented our accepting semi-annual invitations to attend the banquets of the Washington Pistol Club. A couple of weeks ago, however, we were able to accept such an invitation, and there made the acquaintance of a new fraternal order—"The Order of the Penguins."

To one or two men each year who have rendered some outstanding service to the club, this outfit awards "The Order of the Penguins" decoration. The first award was made to a chap who had pulled the chestnuts from the fire by turning in a remarkable score in the big match of the year. BUT the second award went to a pleasant-faced gentleman who is *not* an outstanding pistol shot; who has indeed never been close to winning a prize in the club matches. And thereby hangs this tale.

"The Order of the Penguins" was conferred upon this gentleman because week after week he enters the club matches, pays his entry fees, pays his club dues, and brings in new members, knowing full well that he is merely "feeding the kitty" for the boys who *can* win. He is shooting for the love of shooting. *He is a true sportsman!*

Now the penguin is an unusual bird. Not beautiful as birds go, he has nevertheless a certain beauty of his own. Lacking brilliance of coloring, he has instead a clean white coat and neat black cravat. Lacking grace of form, he has a substantialness which is comforting. Lacking the soaring-ability of the eagle or the swift strike of the falcon, he possesses all the courage and none of the irritability of his high-flying friends of the air—and he has a keener sense of humor. You may laugh at the penguin when first you meet him, but the longer you know him the more you respect and admire him.

The shooting game has its eagles—but it can thank its lucky stars that it has also its penguins. Too long in our admiration of the few eagles have we overlooked the many times more numerous penguins: sturdy birds, courageous, good-natured, generous with their time and money—supplying the aviary from which the eagles soar.

And so God bless "The Order of the Penguins!" May their numbers increase!

Let every rifle and pistol club in the nation establish an annual Penguin award. Make of it a badge of honor, to be presented not in jest but in all sincerity and with honest appreciation to that member who knows he can't win but who none the less spends his money for entry fees and dues, gives his labor to make the range a better place on which to shoot, has a ready word of encouragement for the tyro—and tells everyone what a wonderful shot some other fellow is.

You Eagles of the shooting game, we admire you; we begrudge you none of your well-earned spoils; the game needs your color as an inspiration and as news. But—Penguins, we acknowledge before the world our debt of gratitude to you. You provide your own inspiration of true sportsmanship, and you are the backbone of the shooting game. Order of the Penguins, we salute you!

DANGER AHEAD!

VACATION days are happy days for the youngsters, but they are sometimes worrisome days for the parents. The old swimming hole, camping trips, motoring trips, all take their toll in accidents. Swimming-instruction classes have been working all over the country for weeks past in an effort to lessen the water hazard. Through the Boy Scouts of America and similar other organizations, leaders have been teaching the youngsters how to handle an axe, how to build a fire, how to spot a dead limb on a tree, in an effort to lessen the camping hazard.

What have you as an individual, or your club as an organization, been doing to instruct the youngsters of your community in how safely to handle a gun in order to reduce the gun hazard during this vacation period? Here's a real opportunity to perform a public service. If you don't feel competent to undertake the task, the National Rifle Association has available for you a complete printed course of instruction.

Make this summer the most constructive in the history of your shooting experience, by teaching at least one youngster how to handle a gun safely. If your son or daughter is going to a summer camp, find out whether or not that camp has rifle instruction. If it has not, see that the Camp Director obtains instruction material from National Headquarters.

The AMERICAN RIFLEMAN

JULY, 1935

My First Gun

By E. A. BRINSTOOL

DID anything you ever owned—I don't care if it was a \$5000 "tin Lizzie" or the latest improved airplane—give you quite the joy and satisfaction as did the first gun that ever came into your possession? Did you ever own ANYTHING else from which you got more of a real kick—in more ways than one? I'll bet not! Not if you have any real sporting blood in your veins!

I shall never forget the first gun that I could really call my own—more than fifty years ago. Naturally, it wasn't a Greener hammerless, or yet the cheapest grade of American double-barrel. In fact it wasn't even a breech-loader. It was an antiquated firearm that had belonged to my great-granddad so far back in the dim and distant past that I cannot begin to recall the date; but it was many years before the Civil War. Originally it had been some sort of a musket, but the stock had been cut down and a short fore-end added. Needless to say, it was a muzzle-loader, and about 16 or 20 bore.

But the barrel! It was all of forty inches long, and I'll not soon forget the picnic I had getting that old charcoal-burner home from my grandmother's place, twenty miles away from my own home. I had to carry it on horseback the entire distance; but that was no bar to my happiness, and no owner of the most expensive firearm the market afforded at that time had anything on me. For at last I was the happy possessor of a real gun, that shot powder and bullets!

When my grandmother brought the old weapon down out of her garret, where it had been reposing for the Lord knows how many years, and had wiped off half a century's accumulation of dust and cobwebs, she placed it in my arms, and impressively said: "Now, Sonny Boy, I want you to take real good care of your great-grandfather's old shooting-iron. Don't you go to shooting yourself, nor p'intin' it at anybody—whether it's loaded or not; do you hear?" Of course I solemnly promised strict obedience to her command.

The first thing I did after I arrived home, aching and arm-weary from my long ride, but supremely happy, was to heat a teakettle of water boiling hot, pour the contents down the barrel, and swab out the years' accumulation of rust. Then I got hold of my mother's oil can, and went over the lock, until the "works" were in fairly good order and the lock clicked smoothly. I was only fourteen at the time, and I recall that when I stood up, the end of the gun barrel was just on a level with the top of my head!

In half an hour it was noised about by my small brother that I had returned home with a REAL GUN, and soon the house

was full of excited youngsters, all anxious to examine my prize. None of the boys of the neighborhood could boast of a weapon more dangerous than cross-guns and bows-and-arrows.

"Y'u wanna look out an' not ram th' shot when y'u load 'er up," warned "Hube" Bishop. "My gran'dad says it'll kick th' liver out of a feller if y'u ram th' shot—an' you be HE knows!"

"Yes, an' when y'u ram th' powder-charge home, y'u wanna keep on rammin' th' wads till th' ramrod bounces clean outa th' bar'l; it won't kick half so hard—so my dad sez," explained Kanky Coe.

I digested all the sound advice given me by the boys. Then they all wanted me to set a date when they could accompany me on my maiden hunt. But right there I demurred. I refused to set any dates. To tell the truth, I was determined to have nobody along the first time I pulled the trigger of the old fusee.

Of course my folks all kicked because Grandmother had given me the old fowling-piece. "You'll blow your fool head off the first thing, see if you don't," my father observed, with a shake of his head.

"Or kill some of the rest of us right here in the house when you are cleaning it," added my mother. But I did neither.

Winter weather shortly set in. About a mile from our home was a patch of timber known as "Fisher's Woods." In our boyish rambles through the timber we often scared up flocks of partridges, which would go booming off through the trees. Rabbits often scuttled across our pathway. With our bows and arrows or cross-guns we would occasionally get a chance to shoot at a rabbit, or sometimes a gray squirrel up a tree, but none of us possessed sufficient skill with our crude weapons to bring down any game, although Billy Spencer had once slightly wounded a rabbit, which got away. It was here that I determined to give old "Long Tom" its initial try-out. I took none of the boys—not even my own brother—into my confidence.

On a Saturday morning I was early astir. Meantime I had begged Dad for a quarter, and invested in a small amount of assorted shot, and some powder. After a hearty breakfast of buckwheat cakes and sausage I set about loading the old gun in the kitchen before venturing out. With great care I measured out about what I thought constituted the proper amount of powder for a charge, and poured it down the long barrel, while my mother nervously kept reiterating that I would "kill somebody yet." Using a section of the "old home paper" for wadding, I rammed down the powder "till th' ramrod bounced out." Next came the charge of shot, and another section of news-

(Continued on page 31)



THE IMPROVED MODEL OF BENCH REST IN USE. NOTE THAT BOTH FOREARMS LIE FLAT ON TABLE TOP, WITH BUTTPLATE AGAINST UPPER ARM AND LEFT HAND UNDER TOE OF STOCK

Rest-Shooting

By HARVEY A. DONALDSON

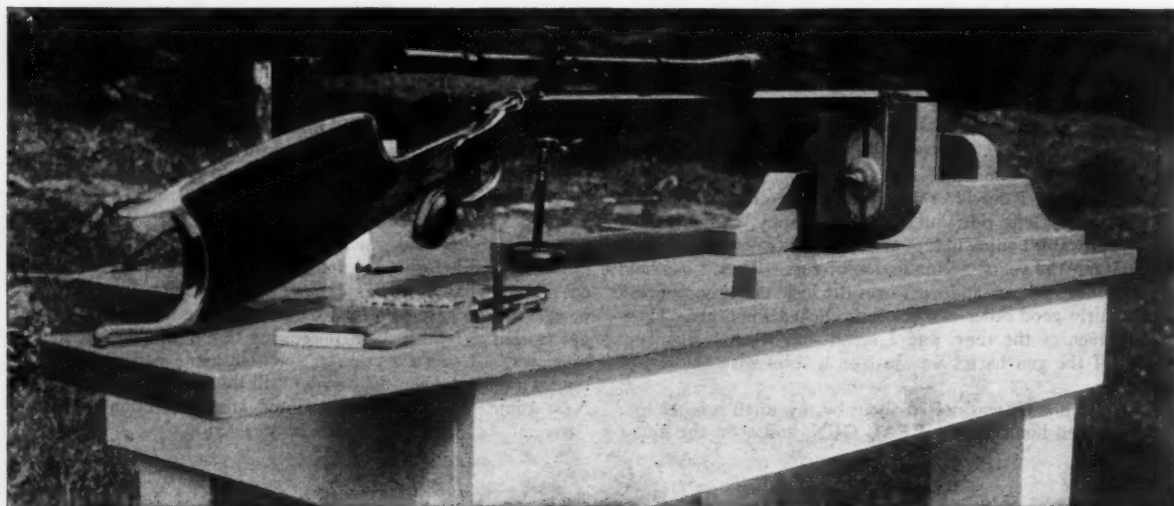
IN THE December issue of *THE AMERICAN RIFLEMAN* my friend Ned Roberts used two of my ten-shot 100-yard rest groups to illustrate the accuracy of the .22 Magnum cartridge. Ever since the appearance of this article I have had numerous inquiries as to how it was possible to do such shooting, and I shall therefore try to explain the methods that I am using. But if one were to turn back to the older copies of *SHOOTING AND FISHING*—from 1895 to 1905—he would find

many such groups shown in nearly every issue—and very few inquiries as to how it was done, for the reason that most other well-informed shooters were doing as well, or better.

My own experimenting as a Schuetzen shooter began back in 1895, and by 1898 I had taken part in a number of our local 200-yard offhand matches; and I have continued this shooting and experimenting up to the present time. I have in my gun-room more than a dozen of the finest

Schuetzen rifles that were ever made. They came from the hands of such experts as Harry M. Pope, George C. Schoyen, A. O. Zischang, O. M. Bremer, and others. Most of them are equipped with false muzzles and used with ball-starters; and each particular rifle has its own complete outfit housed in a separate box made especially for the purpose. Some of these rifles were owned and used by the best Schuetzen riflemen this country ever produced. One rifle in particular, in the

AN IMPROVED MODEL BENCH REST THAT THE AUTHOR IS NOW USING. THE V-REST IS ADJUSTABLE FOR ELEVATION AS WELL AS FOR BARREL LENGTH.





AUTHOR'S EARLY TYPE OF BENCH REST. NOTE THAT THE RECOIL COMES ON UPPER ARM AND NOT ON SHOULDER. THERE IS A ¼-INCH THICKNESS OF SPONGE-RUBBER UNDER BARREL IN V-REST

hands of Mr. L. P. Ittel (now living in Pittsburgh, Pa.) back in 1906 made a record of ten shots offhand at 200 yards that has never been beaten. It has taken me years to acquire some of the best specimens of these Schuetzen rifles. While looking over my collection on one of his frequent visits, Mr. N. H. Roberts remarked that he knew of no one else in the country who had so many especially fine specimens of this particular type.

Perhaps I was more fortunate than many of the riflemen of today, for I had as instructor an uncle who was a very expert old-time rifleman; he being, in fact, one of the Horace Warner Riflemen. This latter may not mean anything to the modern shooter, for whose information I will say that back in the seventies and eighties Horace Warner, of Syracuse, N. Y., and William V. Lowe, of Vermont, gathered together a small group of expert rest-shooters that were known as the Warner Riflemen. J. V. Perry, of Jamestown, N. Y., also had his group of experts, as did Norman S. Brockway, of Bellows Falls, Vermont. It is a matter of record that the Warner Riflemen were the

most expert of them all, and won most of the matches.

My own rest-shooting began with an old heavy percussion muzzle-loading match rifle; and this same fine old rifle, together with the complete outfit, is still in my possession, and in perfect condition. I well remember one of the first things I was taught in rifle-shooting, which was to pay special and particular attention to all the little details in preparing the components used in loading, and this holds good to this day. The idea was that no rifle would shoot better than the loads prepared for it; and this may be the reason why so many modern shooters fail when they try to make some of the old percussion muzzle-loaders perform.

Another thing this uncle told me, years ago, that I have never forgotten. He said that whenever I was looking for information pertaining to rifle-shooting, to lose no time in getting in touch with the real rifle experts, as they were the only ones able to help me. That marked the beginning of an extensive correspondence with shooters, which has continued up to the present time. There must have been some very

obliging shooters in this country back in those days, for while my letters were long and full of questions, so far as I can recall they always received an answer. I kept all these replies, and it gives me pleasure even today to read over some of them. As I write this I can see more than one shooter smile at the thought of keeping a lot of old letters all these years, but I was brought up that way, my uncle explaining that the one rule of a careful rifleman was to keep a record of everything.

In my files I have letters from such fine old riflemen as Rube Harwood, W. Milton Farrow, E. A. Leopold, Dr. W. G. Hudson, Harry M. Pope, Dr. Skinner, Tom Martin—the fine sight-maker, F. J. Rabbeth, John D. Kelley, Dr. Baker, and a host of others. Even to this day I hear from L. P. Ittel, V. R. Olmstead, and C. W. Rowland about once a month; and they, with Harry M. Pope, are about all that are left of that large number of fine riflemen of thirty years or so ago.

From Leopold I learned how to prepare and use the proper bullet lubricant—which was far more important back in the

AUTHOR'S .22 NIEDNER MAGNUM WINCHESTER S. S. RIFLE, WITH 8X FECKER SCOPE IN ¼-MINUTE CLICK PRECISION MOUNTS SET ON 10.8-INCH CENTERS. WEIGHT WITH SCOPE, 12 POUNDS



#1 Target. Nov. 18, 1934.
22 N. Magnum.



Date Sunday P.M. 11/18/34
Rifle 22 N. Magnum
Shell Winchester
Primer 9 1/2 Rem Non-M.
Powder Pyrro D. F.
Charge 26 Grains
Wad None
Bullet 55 Gr Sisk .224"
Temper R. Nose Soft Pt.
Grease L. over all 2 1/32"
Air space shell None
Air space barrel None
Weather Fair 50° above

Distance 100 yards
Shots Ten
Score 120
Group 5/8 x 1"
Position Hugger & Elbow Rest.
Aiming point Center
Sights 8x Fecker Scope
Aperture Medium & hairs
R. Scope Same.
Elevation 26
Windage 138
Light Flood 4:15 P.M.
Wind None

Witness Arnold Flood spotted the shots.
Remarks: Note after bbl. had warmed up
Last 6 shots cut into 1 hole 3/8 x 3/8" Note also
how rifle holds its zero, first shooting
today since Sept 10th when I made a
1/16" group, with same sighting.
H. A. Donaldson.

black-powder days than it is today. He also showed me how to catch lead bullets without mutilation, by firing them into a box filled with oiled sawdust. In later years several shooters have advanced this as being their own idea.

Rube Harwood showed me how to prepare loads for the .25-21 S-S. Stevens rifle. And who can forget the fine articles on squirrel-hunting with the rifle that he wrote in the old magazines, under the name of "Iron Ramrod"!

Dr. Baker and E. A. Leopold were also interested in the .25-caliber rifles, and both wrote very entertainingly on how to prepare loads for them; while I learned all about aperture sights from Thomas Martin ("Trim Nat" was his pen name), and I am using his sights to this day on some of my Schuetzen rifles.

I learned the principles of fine rest-shooting from data received from F. J. Rabbeth, John D. Kelley, William Hayes, and C. W. Rowland, whom the old records show to have been the finest rest-shooters this country ever produced.

C. W. Rowland, of Boulder, Colo., can today, after nearly 60 years of active rifle-shooting, go out on his 200-yard range and make some rest groups that would surprise the modern rifleman. I have before me a 10-shot group fired at my request by Mr. Rowland on his 75th birth-

THESE CUTS SHOW AUTHOR'S METHOD OF KEEPING RECORDS. I HAVE THESE FORMS PRINTED ON ODDS AND ENDS OF PAPER

day, at 200 yards from bench rest, when he had to go to his range and shoot under conditions existing at the time, on November 16th, 1934. There is only a 3/4-inch vertical error in these ten shots, and my forefinger will completely cover the entire group. I have prints of a number of Mr. Rowland's 200-yard groups, made years ago, in which the ten shots cut into one ragged hole. I consider Mr. Rowland the most expert rifleman, in both offhand and rest-shooting, that this country has ever produced. Incidentally, some of you fellows that think you are pretty good might go out and try to duplicate this shooting.

From Doctor Hudson I learned how to prepare Schuetzen loads with smokeless powders, at times using Cream of Wheat to fill up the case. Doctor Hudson also had a fine formula for cleaning the old fired cases. I have his little Blue Book on rifle-shooting, and am sorry now that I neglected to have him autograph it for me. Some of his Schuetzen friends, by the way, never forgave him for leaving the Schuetzen rifle and taking up the .30-40 Krag, which he used almost entirely during the latter part of his shooting career.

When I look through some of my old files I feel certain that I have stored away enough data acquired through this extended correspondence with active shooters—which has continued right up to the present time—to fill several good-sized volumes on rifle-shooting. Also, I have continued my own experimenting and shooting without let-up, and am daily storing away more data for future use. And I might here remark that most of the things we learned in using the old black powder, semi-smokeless, and early brands of smokeless powders, are often useful even today.

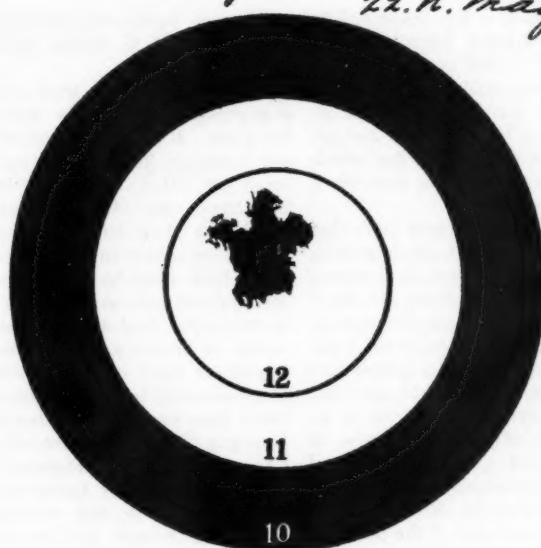
Many shooters have written me that they were unable to find in any book on rifle-shooting, the proper answers to problems that turn up now and then in preparing ammunition. This is a rather large subject, and I doubt if a single book could be written that would properly cover it. Just as an example, only a short time ago in a letter to a friend—who by the way is one of the country's most expert hand-loaders—I mentioned using a charge of $26\frac{1}{2}$ grains of Pyro D.G. in the .22 Magnum case. This charge, I might mention, if poured directly into the shell, will overflow. Soon I received a letter from this friend saying that such a powder charge could not be gotten into that case. But we had had this same problem back in 1900 when using Semi-Smokeless, and this is how Rube Harwood told me to do it: You use a funnel having a straight stem that fits down snugly over the outside of the case-neck. A piece of steel rod three or four inches long is then placed upright on the powder in the shell, and the shell given several sharp raps to settle the powder. The follower thus used holds the powder down firmly, yet does not give any compression.

This is just one instance of an old-time method of loading that applies with equal force to one of our most modern cases; and so it is with most of the problems that come up in our modern shooting. And experience is the thing that counts the most. Furthermore, there are so many little details that enter into fine rest-shooting that unless one is willing to spend a great deal of time and exercise much patience, fine results will be difficult or impossible to obtain. I might go so far as to say that it is close attention to all the necessary little details, that makes for small groups.

Now let us consider the rifles used in rest-shooting—and let no one think that it is possible to go out and buy such rifles ready-made. A good rest-rifle always was and probably always will be a more or less hand-made affair. This applies with equal force to the .30-caliber heavy bull-gun or free rifle, the Schuetzen rifle, and the modern vermin rifle built on a single-shot action. In rest-shooting a heavy bar-

#2 Target.

Nov. 18, 1934.
22 N. Magnum.



<u>Sunday P.M. 11/18/34</u>	Distance <u>100 yards.</u>
Rifle <u>22 N. Magnum.</u>	Shots <u>Ten</u>
Shell <u>Winchester</u>	Score <u>$7\frac{1}{16} \times \frac{1}{2}$"</u>
Primer <u>9 1/2 Rem Non-M</u>	Group <u>→</u>
Powder <u>Pyro D. G.</u>	Position <u>Kneel + Elbow Rest</u>
Charge <u>26 Grains</u>	Aiming point <u>Center</u>
Wad <u>None</u>	Sights <u>8x Gopher Scope</u>
Bullet <u>55 Gr S&W .224"</u>	Aperture <u>Medium x hairs</u>
Temp <u>R. Nose Soft Pt</u>	R. Scope <u>Same.</u>
Grease <u>None</u>	Elevation <u>26</u>
Air space shell <u>None</u>	Windage <u>138</u>
Air space barrel <u>None</u>	Light <u>Good 4.30 P.M.</u>
Weather <u>Fair 50° above.</u>	Wind <u>None</u>
Witness <u>Arnold J. Lord</u>	
Remarks: <u>This is about the best group I ever made at 100 yds. with any rifle.</u>	
<u>I felt confident after noting last 6 shots on #1 Target that shots were going O.K. These two targets show really a 20 shot group.</u>	
<u>H. A. Donaldson</u>	

rel is required, as it is less influenced by changes in temperature, vibration, position, the way it is held in the rest, etc. Other things being equal, the heavier the barrel, the more accurate a rifle will always be. Such a barrel is also less apt to change its zero from day to day, which is a great advantage when the rest-rifle is used for chuck-hunting.

Most well-informed riflemen know that if the .30-'06 Springfield is to shoot well, the barrel and action must be properly bedded in the stock. With the old heavy single-shot rifles such as the Winchester, Ballard, and Stevens, the fit of the stock is of vital importance; and a loose-fitting stock will cause the group to open up. No shooting for groups should ever be attempted with a rifle having a loose or poorly-fitting stock. The long pull-rod through the entire length of the stock of the Ballard rifle was the idea of W. Milton Farrow, and was one of the principal reasons why the Ballard was for years such a favorite with Schuetzen shooters. I employ this same system of pull-rod with the Winchester Single-Shot action, brazing a short block to the under side of the upper tang. The block is then drilled and tapped for a long 1/4-inch rod that goes entirely through the stock, this rod having a flat head with slot for a heavy screwdriver. I have corrected in this manner many loose-fitting Winchester and Stevens stocks on rifles that were brought to me because of their poor grouping; and invariably the trouble was cured by this treatment. All of my own Schuetzen stocks are attached in this manner; for a Schuetzen rifle especially must be rigidly held together, because of the heavy barrel and the fact that it is often balanced on a palm-rest in holding, which puts a severe strain on the stock-fastening.

The next thing is to have the barrel fitted tight to the action. The shoulder on the barrel that comes in contact with the receiver should fit tight all the way around. A close-fitting taper pin through the receiver and barrel was a device long used by Harry Pope and A. O. Zischang as an added assurance of a tight-fitting barrel. It may be that some of our readers have had occasion to remove the barrel from one of the old single-shot Schuetzen actions, in which case they will understand what a tight-fitting barrel is.

In order to have quicker ignition it is necessary to speed-up the lock time. This is done, in the case of the Winchester action, by drilling a number of holes through the hammer to make it lighter. Then both half- and full-cock notches are removed by grinding, and a new notch cut in only a short distance from where the half-cock notch had been. This will more than double the speed of hammer-fall if a stronger mainspring is used. I might add that anyone desiring to have

such a job done can confidently entrust the work to M. S. Risley, of Hubbardsville, N. Y.

If the rifle is to be used with modern high-pressure loads, look well to your firing-pin. It is usually best to have the old firing-pin hole bushed, and a new, small pin fitted. My own Winchester breechlocks for Magnum loads are all fitted with Mann-Niedner firing pins.

Now we come to set-triggers, and a whole book could be written on the subject and still not cover it properly. Here is where the final touch comes in that makes or breaks a good group. A set-trigger as used on a rest-rifle in fine group-shooting is a far different proposition from one used in offhand shooting. During a lifetime of active rifle-shooting, I have used, as well as examined, a goodly number of fine rifles, but in all this time I have seen only two set-triggers that were good enough for the finest rest-shooting. One of these—and the best one—was the work of Mr. Rowland. He first designed the trigger, and then made it up. The other was made by "Old Man" Bremer, of San Francisco, and he used to charge \$30 apiece for them. I have one of these Bremer triggers which can be adjusted so fine that the mere weight of the trigger itself will fire the rifle if the barrel is pointed upward. Mr. Rowland's set-trigger is even more sensitive than this, for he can actually fire the rifle by blowing on it. It requires years of constant practice to acquire proper control over a finely-adjusted set-trigger. When I turn to the finely-adjusted trigger after using the ordinary double-set with which most of my vermin rifles are equipped, it is necessary for me to rub my trigger-finger with sandpaper until the blood starts, in order to have the finger as sensitive as the trigger.

Perhaps this is a good time to say that, after having used every type of single-shot action available, I am partial to the heavy Winchester action, on which all of my vermin rifles are built. Harry Pope remarked years ago that no other action could equal this one, and I have never had reason to question his judgment in the matter. If my readers could examine a Winchester action after it had left Pope's hands, they would know what I mean; for Pope could do things to that action that would have to be seen to be appreciated.

Readers will doubtless be interested in a description of the .22 Niedner Magnum rifle used in making the groups shown with this article, this being the same rifle that shot the two groups shown with the Roberts article in the December 1934 issue of this magazine. The barrel of this rifle was made by the Savage Arms Co. It is 28 inches long, 1-1/16 inches in diameter for its entire length, has a

groove diameter of .222", and is cut with four grooves on a 16-inch twist. This is a selected barrel, and required no straightening. There are no sight-slots or holes in the barrel, and the outside is in the rough just as it came from the rolls. The barrel was fitted tight to a heavy Winchester Single-Shot action by Mr. Niedner, who also did the chambering. The chamber is rather close, with hardly .001" clearance, and the throat is just right for the 55-grain Sisk bullet; all of which is conducive to fine accuracy. The bullets are a snug fit in the fired cases, which makes unnecessary any resizing of case-necks, and gives greater uniformity of bullet-pull.

I seat the 55-grain round-nosed soft-point Sisk bullet in the case to give this cartridge an overall length of 2-7/32 inches, it fitting snug in the chamber, with the bullet centered in the bore by the chamber throat. If an unfired cartridge is removed from the chamber there will be found a faint mark entirely around the bullet, showing that the bullet centers exactly in the bore. I have never seen a better chambering job, and Mr. Niedner evidently has this chambering business down to a science.

I use a 3/4-inch Fecker scope on this rifle. It has both the 4 1/2X and 8X eyepieces, and is held in 1/4-click precision mounts set 10-8/10 inches apart to permit of very fine adjustment. I use the 4.5 eyepiece for offhand chuck-shooting or when using my chuck rest, and the 8X eyepiece for rest-shooting. This makes a fine combination, and is the best outfit for the money that I have ever used. I feel that much of the credit for the fine accuracy shown by this rifle is really due to this scope.

The action of this rifle is equipped with a special speed-lock having a stronger mainspring than standard. It has a small firing-pin, and the breech-block is fitted up so close that it rubs on the head of the case. The set-triggers are of my own design, and are made over from the Winchester Schuetzen double-set. They allow of such fine and sensitive adjustment that I have to change the adjustment when going from rest-shooting to chuck-hunting.

The stock is one I made over from an old Winchester stock, by fitting a higher comb and a cheekpiece. I bent the lower tang, added a pistol grip to the stock, and altered the lever to conform to the curve of the tang. The stock is securely fastened to the action by a long pull-rod, as previously described. Before attaching the stock, I applied cement to both wood and metal, where they come together; and when the bolt was drawn up tight I had the satisfaction of knowing that I had a tight job. It can readily be

(Continued on page 34)

Duck Guns and Duck Shooting in the Old Days

By CHARLES ASKINS

(Concluded from May issue)

THE last day of our duck-hunting expedition was at hand. Jim, our cook, had exhausted all the novelty of camp cookery, and was ready to assert that the old woods' loafers were humbugs when they got enthusiastic about that sort of thing. Jim did develop skill as a fisherman, however, for which he was generally commended, since all of us preferred fish to any other article of diet, except bacon. John had become a bit soured on duck-hunting by having had his huge bag of ducks eaten by wild hogs, so he and Henry struck up an acquaintance with a neighboring lad who had dogs and went coon hunting. They brought in an assortment of tales, and a coon, which latter Jim was instructed to place in the Dutch oven and cook all night. The roasting coon had an appetizing smell, but the next morning when we turned out for breakfast the oven was empty. Jim said the coon looked too much like a dog, and he didn't intend to eat it. So we had squirrels for breakfast, and no one made any protest.

We had wasted a day, so far as duck-hunting was concerned, but John knew just where to go for another big shoot, while Albert and I had geese in mind for this last day. So far as we two were concerned, we'd have been content to stay until the lake froze over, but John had promised to play for a dance the following Saturday night, and we had all agreed to be home that day. As for Henry, he had his eye on a young sister of John's, and seconded his future brother-in-law on every occasion. John was a genius, who did everything well with little apparent effort, but the real backbone of that gang—the lads who had the single-minded purpose of making great duck shots of themselves, were Albert and myself.

Since we knew precisely where the geese were and what they were doing—when they came in and when they went out—we proposed to leave no stone unturned in making this the greatest goose hunt that either of us had ever had. And incidentally, it was just that, for in the course of a fairly long life I never had such an opportunity at geese again; nor did Albert, either. For once we intended to use decoys; though, I might add, neither of us had ever seen a goose decoy. However, we had seen pictures of them—decoys in profile—made of sheet iron or tin. There were plenty of flat boards in the old barn, and Albert was pretty skillful with a small

pointed saw that we had brought with us. I drew a profile of a goose on the side of the barn, and Albert copied it. We found black, green, and white paint in the kitchen, and I went to work with the brush. It took us half a day to make twelve decoys, on three of which Albert put side extensions, which we covered with some old cotton sacking, making the entire body white. These latter were for white geese, some of which we had seen with the others. After lunch we took old Jim-mule, the gentlest of the pair, and loaded the decoys onto him.

The east branch of Schoen Lake ran up two and a half miles. Half a mile farther to the east lay Bluff Lake, a large body of water on which the great fowl rested in security well out from the shore. Between the two bodies of water was a cornfield, the stalks still standing because very little corn was cut or shocked in the Mississippi Bottoms in those days. A part of that large cornfield had been drilled to wheat—by the simple device of taking a narrow drill and one horse, and drilling-in the wheat between the corn rows. This had been done in September, and now in November the wheat was a densely massed green spread all through the standing yellow stalks. It must have appealed to the geese as a great foraging ground, with the corn yet ungathered and some of the stalks lying flat, ears on the ground—some of them picked clean but others ready for web-footed gleaners. From the time we came in, driving down the bluff, we could see geese alighting in that field between the two lakes, together with other big birds—cranes of two varieties, and a steady flight of ducks. Mallards and pintails shared the cornfield with the geese, but that didn't concern us much. It was geese we were after, for we had already killed enough ducks.

We hoped to find the best spot from which to shoot, and to dig our pit there. The market-gunners had taught us that only one perfect day of shooting could be had from any particular blind—with not a shot fired from that blind until the red-letter day; so we had left our guns in the cabin, though with some reluctance, knowing very well that the best opportunities come to the man without a gun. On this day of silence the ducks had come in and massed all along the east shore, with flocks winnowing overhead. It seemed those birds were less afraid of a mule and two

men than they would have been had the mule not been there. At any rate, like the Englishman with his walking stick, I had to content myself with pointing the spade and saying Bang!

Reaching the place which John and Henry had described as a "using-ground," we found half an acre free of corn almost in the middle of the field—a bit of low ground where spring rains had drowned the corn, and where even now there was a puddle of water out near the center where the smartweed grew. This half-acre had been drilled to wheat the same as the surrounding cornfield, except that here it appeared to have been double drilled, the wheat having grown very rank and about four inches high, forming a dense green carpet.

We drove a hundred mallards out of the smartweed patch, which they appeared reluctant to leave. The wise geese had winged off promptly while we were yet several hundred yards distant. There were more kinds of geese than we could name, but we knew the big Canada honkers, and a smaller variety which looked the same yet were easily recognized when they raised their heads, as they stood apparently nearly six inches lower. Again there were white geese, they appearing nearly as large as the Canadas, and being a good deal more prominent when on the ground. We were keen to shoot some of those white fellows, as they were rare at home and were seldom seen on migration.

The problem now was where to locate the blind. After all, we couldn't solve it for we didn't know where the wind would be in the morning. However, we assumed that the wind would be in the west or northwest, and we further assumed that the geese would attempt to alight against the wind. Therefore we dug a large pit—three feet deep and six feet long, on the west side of the smartweed patch, getting only far enough away so that water wouldn't come into the hole. The dirt taken out was carefully leveled off to leave no mound, and about the pit we placed cornstalks, carefully interlacing these with sawgrass and smartweed. From off at a distance, and also close up, we inspected our work to see if it bore any "scarecrow" marks; but it appeared to us as merely another small patch of smartweed growing about where this plant naturally would. We got into the blind just to see what would happen if a flock of geese came over

from Bluff Lake. Staking down our decoys by pushing the one leg into the soft earth, distributing them to give a natural effect as best we knew how, we went back a hundred yards to the east to look them over. They looked like geese to us, all right, even the two white ones placed flat on the ground inside of the main flock, and closer to the bit of water. Our observation had been that white geese liked to feed in shallow water, while the Canadas were partial to dry land.

Now, leaving old Jim-mule picketed and feeding about on the wheat, in plain sight—knowing that geese were not afraid of stock, we got into the blind, and waited. It was a comfortable place in which to recline, with seats made a foot higher than where our feet rested. It was a fine fall day, not too hot and not too cold. We had been up much the night before, and I suspect that we both sat there and went to sleep. At any rate, we were brought to by a loud "hee-haw!" from Jim-mule. The old rascal, not being able to see or hear anybody, probably concluded that he had been deserted. We awoke in time to see a great flock of Canadas break water, and circle nearly overhead. Now, fifty yards distant, a flock of two dozen geese clamored and climbed; then, not being able to see anything except a harmless mule, they reformed, circled widely, and came back, calling to one another and to the decoys. After making a circle a quarter-mile across, starting off to the north, circling to the west, and then south—clean around to the east, they came back, passed directly over our decoys, and alighted to the west of them, up wind and too far out. We watched them for a short time, and saw one bird assume his position as sentry, whereupon the remainder at once went to feeding on green wheat, disregarding the mule just beyond them.

Our time was up, and not wishing the geese to see us, Albert placed his fingers to his lips and gave a shrill whistle. For an instant those geese simply raised their heads, startled, but then the old sentry took wing, to be followed by the entire flock, all protesting noisily. They must have attributed the disturbance to the mule, but weren't willing to take chances on a mule which first brayed and then whistled. We decided that the next morning we should place our decoys a little farther around to the right, and a bit closer to the blind, so that the geese dropping in would be within easier reach of the guns. The decoys were then gathered up and put into the blind, and carefully covered; and with Old Jim in tow, we plodded off for camp. All kinds of waterfowl became tremendously active as the sun dropped low, refusing to sheer off for two country boys and an old brown mule.

Going to bed early that night, we were all up long before daylight the next morn-

ing, and in high spirits. Albert and I had a hunch that we were to make the greatest bag of geese ever shot by two green youngsters, though we didn't in the least know what others might have done. John and Henry were all set for canvasbacks and redheads, knowing where they bedded on the west shore of the main lake. The homesick Jim was in a good humor, as this was our last day. Routed from his comfortable straw bed, old Jim-mule got up protestingly, but tackled his corn and oats with a healthy appetite. He didn't know what was in store for him that day.

My shells were loaded with No. 2 shot—a few with fours. Albert had his pouch filled with the same size shot, and a pocket-full of wads he had cut from the rim of an old felt hat. After the usual hearty breakfast, with a good lunch in our pockets, and plenty of twine to tie the geese together with, we got off, probably a good hour earlier than there was any need of. However, we were not taking any chances on the geese getting in there ahead of us.

Every species of wildfowl whimpered and whistled and whispered overhead that morning, sometimes seen and sometimes merely heard. We had made up our minds not to fire a shot before entering the blind, and the only thing that tempted us was a flock of tremendous shadowy-white birds that passed low overhead, appearing to be six feet long and ten wide, as they beat with rhythmical wings, making no noise except a loud whisper. They were no more than forty or fifty feet up, and paid no attention to us whatever. I couldn't tell whether they were white cranes or swans, but Albert said "Swan," and swans were rare birds to us. We did not molest them, though we knew we could not have missed. They passed over the cabin, and we heard John shoot. And sure enough, there was a trumpeter swan hanging on the cabin wall when we came in that night.

We tied old Jim-mule down on the shore of the lake this time, not being willing to take chances on his becoming lonely and braying. No vestige of dawn appeared over the Illinois bluffs, now a black mass three hundred feet high. The ducks had been talking softly in our little pond, but of a sudden this ceased and they rolled out, splashing and quacking. We couldn't see them, and it is doubtful if they could see us. Perhaps they heard us, or maybe scented us. Many of them came right over our heads, so evidently they didn't know just what had scared them, or where the enemy was.

Our eyes now well accustomed to the darkness, we reached the blind, set out the decoys in accordance with previously made plans—wind still holding to the northwest—got into our pit, and sat snugly waiting. No geese were to be heard, and the pre-dawn silence was eerie enough to keep us quiet for a little while. At last I

ventured in a low voice, as we sat side by side—hugged up together for the sake of warmth: "What do you suppose all this really amounts to? Here we are, sitting in a damp hole in the ground, chilled, when honest folk are still snug in their beds. Suppose there is any real horse sense in it? What are we here for?"

"Well, I am here to shoot geese, if we can 'hack' it, and you are too, I guess."

"But what makes us want to kill the geese? We don't need 'em. You take it that the only reason we and everybody else want to shoot things is just to see if we can hit 'em?"

"That's part of it. I have been wondering a long time whether I could really hit geese or not, if I had a chance. You have, too. We have been stirring up a batter for a long time, and now we want to cook it."

"There you are: the only reason we want to kill fine big live birds, which we would much rather see living than dead, is just to see whether or not we can hit 'em."

"Not altogether. It is a game—one of the finest games of nerve and skill in the whole world. If a man is soft, if he is a sissy, if he lacks courage, he can't play it. What we are trying to prove, to ourselves, is that we have something in us that warranted nature in producing us. If we fail, we know that we have not so much failed to kill geese as that we have fallen down in our own estimate of ourselves."

"You have put the thing pretty well anyhow, old son. It is just a game."

It wasn't exactly the kind of day we would have chosen, but was balmy—a sort of throw-back to October Indian Summer. The wind softened. The sun brightened the treetops on Fountain Bluff, bringing out the black of the cedars against the yellow of the oaks, not yet stripped of leaves. The owls gave a parting hoot to both the east and west of us, and crows began to fly. Plenty of ducks had passed over, few attempting to alight. We had been tempted to shoot into a flock of canvasbacks, winding over the decoys no more than twenty feet high. No geese had appeared, though the sun would be casting long shadows presently. The ducks, which had been noisy when we came out, were now silent. No geese were to be heard, and the cattails along the shore of Bluff Lake were too high to permit us to see the water except near the farther shore. Hawks were occasionally dropping down upon a flock of teal, the small fowl rising to race about over the lake. It was all so quiet that we were in danger of going to sleep, and welcomed a Hee-haw! from old Jim-mule.

Two bald eagles, one following the other, winged the entire length of Bluff Lake, coming in from the south and flying steadily with slowly beating wings, some seventy feet above the water. No ducks or geese broke away from their flight.

The eagles alighted in a dead cottonwood, so far away we could hardly see them.

"Looks like no ducks or anything else on the lake," I said. As if that were a signal, certain short, trumpet-like calls came from the lake, and the geese began to rise in numbers all up and down the lake for a mile. Flying low, just clearing the cattails and brush along the shore, they appeared to be converging upon us. We sat tight and grim, taking a long breath and trying to hold it. In places the geese were so thick that we couldn't see the timber along the bluff beyond. Shortly they were out over the wheat and corn—all kinds of geese, some higher than others, and casting such a mass of moving shadows as to darken the earth. All were coming direct, with no wavering and no apparent suspicion inclining them to circle the ground. This was their breakfast time, seemingly, and they were coming to get it. No one could possibly have shot up through those geese anywhere between the lake and our blind, and missed. As they sighted the decoys there was some calling, and the converging became more marked. Just back of the leading flock, which appeared to be Canada honkers, were fifteen or twenty snow geese. I fixed my eyes upon them, never having killed one.

Now their very eyes could be seen, and the heavy swishing of their wings heard. We sat motionless, intending to shoot from right where we sat; and Albert whispered, "Don't fire until they mass-up and drop their wings to light." This they did, with geese all over us. Geese were so thick that I doubt if the sky could have been seen through them, had we thought of anything like that. I still had my mind set on a snow goose, and fired the first shot at one, no more than forty feet up. I saw his neck double up as he started down. Dimly, too, I saw a number of geese falling to Albert's gun. My snow geese had towered at the reports, and I got well above one—too far above for the range, missing clean. Another goose fell to Albert's fire. Chagrined at the miss, I loaded, and as luck would have it, some of the panic-stricken birds came back over us, and I dropped another.

We gazed after the departing geese for an instant, all of which had continued on to the west, never a bird returning to Bluff Lake. Then we got out to collect the dead; I with gun loaded in case of cripples. But not a goose was crippled. Albert had five Canadas down, four with the first barrel and one with the second. All I had was two white geese with black on their wings; big fellows nearly as large as the Canadas. I was content notwithstanding I had missed a shot, and you can imagine how Albert felt. We brought those geese in and laid them out in a row. Never, we thought, had so many geese been killed

before at one discharge of the guns. We were both a little shaky, and the strain must have been intense.

"Albert," I said with some misgivings, "if we keep on like this old Jim-mule can't carry in the load. How much you reckon they weigh?"

"About 70 pounds, I guess. I know I killed too many, but I just wanted to be sure of one."

By and by, no more geese in sight, we decided to add the dead birds to our decoys. Albert was an excellent mechanic, and I had done drawing enough to know when a thing looked right; so presently our dead fowl looked as big and natural as life.

We sat snug in our pit, not talking; our minds on geese and keeping a careful lookout in all directions. It was evident that our decoys were working beyond anything we had imagined. If the geese came in, of which we had little doubt, all we had to do was to shoot, and the shooting appeared to be far easier than taking ducks. However, we sat there for an hour and not another goose dotted the sky in any direction. Then we saw a flock—perhaps thirty geese—coming down the lake from the north, in V-formation. Well over the lake they broke form, and when nearly opposite us wavered a bit, began gabbling, and then swung our way, having seen the decoys. Now these geese afforded us more excitement, or at least more suspense, than had the big composite flock of ten times their number. They had headed for us in an irregular line, perhaps fifty feet high, but three hundred yards out they bore off to the right, and then began to circle. Around they went, clear round the blind, maintaining their distance. Half a dozen times we thought they were gone, and as often believed that now they were headed straight in, as the line bent and doubled. However, they winged all the way around us, and then started a shorter inner circle. "They'll come," Albert whispered.

The second round was completed back of us, the line broke, and every mother's son of them began an outcry. Right in front of our blind they began to mass up to alight. I was on the left side, farthest from them, and the first shot was mine. Through some prank of human nature I picked an opaque mass of descending geese to fire into, then jumped the gun above the smoke and fired again, seeing the last bird fall. Albert had killed with his first barrel, but the second bird wavered, started to fall, and then followed the flock west. Three hundred yards off the great bird fell into the standing corn. I loaded my gun and gave it to Albert, who started on a turkey trot after his crippled bird. He found it quite dead, the goose never having moved after it fell. He came back slowly, his big goose over his shoulder, grinning a bit dubiously. "We been shooting two hours and got

twelve geese. Want to call it a day?"

"No-o, I don't. Might if we were going to shoot some more tomorrow."

"But we have been shooting two hours and have twelve geese. If we shoot eight hours, how many will that be?"

"About fifty geese, and Old Jim couldn't carry that many. We might not be able to haul all our game out, either. Hear John's guns, way off there to the west? He is liable to have a hundred ducks; two hundred and fifty pounds more of ducks. We have a hundred pounds of fish in the net. Better set a limit to the geese."

"All right: we will stop at twenty-five geese, even if we kill 'em all before twelve o'clock."

It was one of those days they call in the West a weather-breeder. The wind died away, and the sun shone through a slight haze. Having mounted our latest kill, we shed our duck coats and sat on them. An eagle came along and made a dart at the decoys, but we were half asleep, with guns down, and didn't shoot, as he discovered his mistake. Not another goose came over, or in sight. I suspect that I nodded as I settled myself more comfortably in the blind, knowing that Albert would be alert. Noon came and we ate our lunch, getting a bit uneasy now for fear the big shoot was over.

"Well, Albert, we got enough, anyhow. This is the first time we ever did kill more than three geese in a day. Suppose we gather some corn and go down to feed old Jim." We did this, gathering plenty of corn—stalks and all, so that the mule would be occupied a greater length of time in getting at it. We took our guns with us, though not expecting to shoot anything, as this was the quiet part of the day. But we anticipated an evening flight, and intended to wait for it. Sitting down under the shade of the tree to which Jim was tied, we presently saw a flock of geese come in from the west. These were spotted-looking geese, perhaps forty of them. They went round and round the blind, now and then directly over it, not over twenty feet high. They alighted a little way from the decoys, in the edge of the corn, and in place of eating wheat were searching out ears of fallen corn. They were making their way in our direction, but very slowly, scattering as they came. If they had any sentry posted, we couldn't distinguish him. We saw one bird raise his wings and strike another which had attempted to take an ear of corn away from him. There were plenty of other ears, and no fight followed. We wanted to get rid of those geese, as they would decoy the next flock, with nobody there to shoot. Albert whistled as loud as he could, but we were three hundred yards away, and the birds paid no attention. At last we decided to see if the old scheme of stalking by the use of a horse, staying back of

him as he went forward, would really work; and it might have done so if old Jim-mule had been onto his job. However, he wanted to stop and eat wheat, and needed considerable urging; and I have no doubt that we bobbed around some. The geese saw Jim and quit feeding; and Jim saw the geese and raised his head. The geese must have seen us, for they went away from there, climbing fifty feet and going straight away to the east.

We retired Jim to his corn, and went back to the blind. It was well along in the afternoon before another goose came in. Then a bunch of a dozen birds came from the west, in the direction we had driven the horde in the morning. We saw them when they were only a black dot in the sky, and watched them expectantly. They came direct, in a single straight line, passing us to the south. We didn't expect a shot, but they turned and circled, still high in the air. They came close enough for us to see their head-markings, and looked like Canadas. They flew like the big honkers, too, but we decided that these were smaller geese. Oddly enough, on a second turn they got no lower, and made no pretense of alighting. They looked to me to be close enough for us to kill one, and I guessed them to be fifty yards off when they passed the blind at the nearest point.

"They won't drop in," Albert declared. "We will have to try 'em. Lead aplenty."

I fired the first shot, and heard the number twos strike with a distant whack. The goose wavered but went right on. Albert fired and struck a goose, which didn't even waver. We shot again, though knowing it wasn't any use; then watched the flock regretfully, for they might have come in closer. Out over the corn, as they headed back in the direction from which they had come, a goose dropped out, striking the ground heavily. A hundred yards farther on a second bird followed. We were out of the blind in a jiffy, and running, for we suspected those birds were crippled. We hadn't killed a goose in several hours, and wanted those two. We found the first bird where he fell, but not the second. By and by we saw him, making his way with long strides for Schoen Lake. Hitting our best gait, we were overtaking him when he started to flap his one good wing. I fired at long range, and luckily bowled him over before he reached the water. Fourteen geese now, and we had eleven to go.

We talked it over. "How far away were they, anyhow, Albert?"

"Louis says geese are always farther away than they look. Maybe sixty yards."

"The devil! I thought my first bird was close enough to shoot his head off. Say, if we'd had a goose call and knowed how to use it, I bet those geese would'a come right down, and we'd killed half the flock. But what gets me is that I have a

choke-bored gun, and yet couldn't stop that goose."

"Bet you hit him too far back." We examined the bird and found this was true: three shots in his rear end, and none in front. Albert had merely touched a wing-bone, which later snapped.

"They are not coming in like I thought they would. Might be we won't get another shot," I said.

"They will, though," replied Albert. "Geese roost in a certain place, every night, unless shot at on their roosting grounds at night. All that big lot of geese we shot into this morning hold out in Bluff Lake, and they will be coming back along towards sundown."

Albert proved to be a true prophet. An hour later we saw a black spot appear over the blue line of the forest to the west. The spot increased in size to a flock of geese, flying in irregular line. That big bunch showed no sign of circling, but came straight for us, not over 75 feet up, winging slowly, not a head turned toward the decoys. We were just in luck that they happened to come directly over the blind. We couldn't miss, for they were too close. Holding a foot ahead, we each got two birds; and as the others started to climb we got two more. The only clean pair of doubles made that day.

"No use to stake these out," Albert said. "They have all fed somewhere else, and they won't stop."

I was elated over the way things had turned out. This was the way to shoot geese; no firing into masses, but picking your bird and centering him.

"I am glad they don't decoy, Albert. It's more fun this way."

"Sure is—if you always hit 'em!"

"Well, we have eighteen, and can take chances on the other seven. Ever hear of any two market hunters killing 25 geese in a day?"

"Don't believe so. But the market hunters don't care much for geese. They don't bring much more than ducks, and they weigh too much. The market hunters have to pay express, you see, and it don't leave 'em much on geese."

Presently the geese were coming over; coming from all sides, flying straight for their roosting spot on Bluff Lake. We waited while bunch after bunch passed to one side or the other, hazarding shots at two flocks without result. Then a flock did happen to come over us, and we brought three down. Next we killed two sandhill cranes, firing but one shot each, because we didn't care much about shooting these big fellows, merely wanting to know that we had killed a pair.

"That would make us 23 birds," I said to Albert, "if we counted the cranes."

"We said 25 geese,"—and Albert shook his head. "We only lack four, and it is not dark yet."

Whatever made that last flock of geese come in, I do not know. Probably they were migratory birds, driven before a storm that we knew nothing of. We were watching the west in the deepening twilight, when they came in before we knew it. They made no noise, and just dropped in seventy yards to the north, and began deliberately walking towards the decoys. We watched them, all set, intending to get our four geese if we could. Thirty-five yards out they were coming on, almost in single file. Albert whistled, to make them jump, as he afterwards said. Instead of springing, they merely raised their heads. Albert fired, and with my gun already aimed, I merely shifted above them, and shot, seeing two geese drop back. Neither of us shot again. Albert had two geese on the ground, and our bag was complete.

"Now," said Albert, "no more shells in your gun: we are through."

I didn't like the idea of shooting birds on the ground, but said nothing. Twilight was coming on, and it appeared that we were in luck to have ever reached our bag limit, however it was done. Albert collected the geese and began tying them together in bunches of six, while I went for old Jim-mule.

And so we made our way slowly home. We found that John had killed over a hundred ducks, half of them redheads and canvasbacks. But he was a bit envious of our goose bag, at that. In the night the wind whistled shrilly about the cabin, and in the morning it was snowing. The ducks and geese were on the lake nearby, in huddled clusters, with the snow beating on them; but no shot was fired, and by eight in the morning we were off for home, fish and all, the wagon filled to the top of the side-boards. All of us walked except the driver, for our team was loaded to the limit. We never climbed aboard the wagon until we had topped the bluff and were on more solid ground.

* * * * *

Only one of those of our old gang who are still alive is as keen today as he ever was about the ducks and the geese. Even so, with all his modern guns he shoots very little now as compared with the old days; and though I did not know it then, Albert was destined to be the one fine, loyal, wholehearted shooting chum that I was to have. We shot together steadily over a period of ten years, when waterfowl were in their heyday, sometimes walking six miles before daybreak to the Mississippi Bottoms, and home again after dark. But we never again saw ducks as plentiful as in the vanished days of which I have written.

THE END

THE AMERICAN RIFLEMAN

Accuracy of the Muzzle-Loading Rifle

By WALTER M. CLINE

SO WIDESPREAD has become the interest in the muzzle-loading rifle, that the question of accuracy is the prevailing topic of conversation whenever a few enthusiastic muzzle-loader riflemen get together.

Following the National Muzzle-Loading Rifle Match at Portsmouth, Ohio, last year, I decided to go into this matter of accuracy very thoroughly, and to use as a basis of my research, the following:

Files of information preserved for many years, and obtained by personal contact with the riflemen of muzzle-loading days;

The theories of the early writers, preserved in publications the oldest of which dates back to 1808;

The ideas of the old-time gunsmiths still living—men keen of mind and active in their work.

All of which constituted a good supply of data upon which to base my accuracy experiments.

The principal questions that confronted me were: Which was the best length of barrel; the best caliber; best number of grooves, as well as width and depth of grooves; the best pitch of rifling; most accurate powder charge. Also the most suitable patching material; correct size of bullet, for a given bore; how tight the patched bullet should fit the bore. Then also there was the matter of sights, weight of rifle, etc. Furthermore, I wanted to discover the reason for the occasional off shot that is still the bugbear of the rifleman. And, finally, there has always been the question as to whether modern machinery and equipment could produce a more accurate muzzle-loading rifle than the product of the old and seemingly crude hand methods of years ago.

Dealing with this last question first, I was very fortunate in my approach to this problem in having for a friend a man who is an enthusiastic muzzle-loading rifleman, and is as well the sales manager for a large manufacturing concern which is equipped with the very finest of modern machinery. Moreover, Carlin Shackleford—for that is his name—can make anything at all with modern machines; and one evening while sitting in his office I brought up this matter of modern versus old-time methods of rifle manufacture. It just happened that my remarks were well timed, for somewhere back in the Cumberlands "Shack" had found a muzzle-loading rifle and had talked the owner out of it. He now began to question me as to the best methods for rebuilding it, and I recommended the use of the long-bit and a few

of the other old tools that had proven satisfactory in days gone by. "Shack" did not think much of these tools and methods, although he did make a long-bit. However, the rifling in his barrel was of very slow twist, and had been dressed out numerous times and the lands flattened, and as a result the long-bit chattered terribly. So he finally made me a present of this tool, saying that he could remember it without having it nearby. "Now," he said, "I will grind you some reamers, and with our modern machinery we will rebuild some of these old rifles and make them shoot as they never shot before!"

We used ten rifles altogether in our tests. For our first tests we selected from my collection a rifle that I called "Tellico," which had come from a little town in the mountains called Tellico Plains. This rifle had a 48-inch barrel of .416 caliber, and weighed sixteen pounds. It had narrow grooves, and a twist of one turn in the length of the barrel. I had cut the grooves of this rifle deeper, and all in all we regarded "Tellico" as a fit subject for our first effort to determine what modern machinery could do. Shackleford had ground a beautiful four-fluted reamer, at one end of which he had left a collar .0005" less in diameter than the body of the reamer, which measured .421". We were about three hours getting this reamer through the 48-inch barrel, and the result was nothing to be elated over. The reamer did not cut smooth, although it did produce a perfectly cylindrical bore. The barrel, as finished, was .421 caliber, had a twist of one turn in the length of the barrel, the width of grooves being one-third the width of the lands. A telescope was mounted on the rifle, but the best we scored on the standard small-bore fifty-yard target was a 47 and two 48's.

While this was encouraging, it was not fully up to expectations, so another reamer was forthcoming; and this, while made on the same general lines as the first, had a taper of about .001" in three inches, and was expected to cut a very smooth bore. It was necessary to make a special feed for this reamer, as the slowest feed of the lathe was still too fast. The barrel selected for this second attempt was 48 inches in length and of .440 caliber, while the reamer measured .452" across the cutting edges. It is not necessary to go into a detailed account of the work that followed, though I might remark that we were twenty hours in getting this reamer through the barrel,—and then finally finished it with the long-bit. This rifle weighs four-

teen pounds, and is of .453 caliber. It has seven grooves one-half the width of the lands, and a pitch of one-half turn in the length of the barrel. This rifle gave excellent results, shooting 48, 49, and possibles with scope.

An interesting development occurred while using this rifle. Suddenly it began to scatter its shots, and an examination of the patches showed that they were being cut, causing the bullets to go wild. A close inspection revealed the fact that the barrel had developed a rough place in the breech. So we cut two inches off here, and rebreeched it. This rifle with 1½ drams (41 grains) of King's Semi-Smokeless powder, FFG, now gives fine accuracy. The patching material used is linen—the so-called "coat linen," and measures .015" in thickness.

Of the total of ten rifles used altogether in our tests, five were selected as outstanding in accuracy. Fifty shots were fired from these rifles under ideal test conditions: ten shots from each in five-shot strings. The result is shown in the illustration, which is a composite of the fifty shots—all of which are in, or cut well into, an inch circle. Four of these rifles had 48-inch barrels. Two of them had twists of one turn in 48 inches, while one had a half turn and one a three-quarter turn. The fifth rifle was a stranger to the others, it being a precision match rifle with 36-inch barrel, six grooves, a gain twist ending in one turn in 36 inches, and of .421 caliber. This rifle had been recut by William Large, of Ironton, Ohio, and was an excellent job. It weighed eighteen pounds, and was shot with peep sights. It was in a class by itself, and shot possibles right along. Incidentally, it is a difficult job to recut a gain twist, as you have a constantly changing pitch to contend with, and the long-bit cannot be used.

Since these tests, two other rifles have been tried out successfully. One has a 42-inch eight-groove barrel with narrow lands, and a twist of three-quarters of a turn in 42 inches. The caliber is .480. This rifle is very temperamental, and a charge of 10 grains of FFFg black powder as a priming charge, and one dram of FFG King's Semi-Smokeless is the only one that we have found that will give accuracy. The other rifle is .40 caliber, has a 48-inch barrel, weighs eleven pounds, and was the lightest one tested. It has grooves which are the same width as the lands, and make one turn in the 48 inches. These two rifles have never fired a wild shot, and will group well inside of

an inch circle at 50 yards. Incidentally, one of the rifles we tried out in these tests,—one of the best looking, and with the finest workmanship of all, would not group under two inches at 50 yards, in spite of all our efforts. Just why, we have not yet discovered; but we are continuing our experiments with it. We also tried a flint-

Our preference is for a rifle weighing from twelve to fourteen pounds, with a 48-inch barrel.

Width of grooves and lands apparently does not affect accuracy, as every rifle we used differed from the others in this respect. Narrow grooves are much easier to cut than wide ones, but with a narrow-

run from .008 to .010. The calibers from which we obtained the finest accuracy ran from .400 to .480. (We tried out everything from .320 to .600 caliber.) With calibers under .400, the bullet is very easily affected by wind, while calibers of .500 and over are difficult to manage and obtain good results from. Ninety-five per cent

A LEAD CAST MADE ON A ROD OF SEASONED HICKORY, WITH BOTH GROOVE AND LAND-CUTTING SAWS IN PLACE. THOUGH THIS TOOL IS CRUDE IN APPEARANCE, IT IS CAPABLE OF PRODUCING ALMOST UNBELIEVABLE RESULTS

lock rifle, which shot right up with the percussions.

These tests of ours have been in progress for a year, and our deductions resulting from them are as follows:

A barrel of soft charcoal iron, as the rifleman of the muzzle-loading days learned, is the best where a patched round bullet is used. Each barrel we used was tested under a Scleroscope for hardness and uniformity of material, and all the barrels that showed the best accuracy ran around 18, 19, and 20. Steel barrels run around 26 to 30 Scleroscope, the old cast steel and our cold-rolled steel being about the same.

The barrel must be straight and the bore perfect. Any number of grooves from five to ten is satisfactory. Pitch or twist of rifling may be from one-half to one full turn in 48 inches.

The half-turn pitch makes a splendid match rifle for 60 yards, and is the least susceptible to variations in powder charge. A round ball has very little bearing on the lands, and can be driven faster in a half-pitch barrel. In our tests of rifles of this type, variations in powder charge up to the point where the

SECTION OF A BARREL SHOWING HOW FLAWS WE SEE THE WELDING

COMPOSITE GROUP OF 50 SHOTS AT 50 YARDS

LAND-CUTTING "SAW"

"SAW" FOR CUTTING GROOVES

of all match rifles were made between .400 and .500 caliber.

The much-discussed question of bullet size in relation to bore, together with the thickness of patches and their material, underwent a thorough investigation. Beginning with a bullet that would just drop through the bore, the size of the bullet was increased by lapping the mould a thousandth at a time until the best accuracy was secured. Also, the accuracy of round and out-of-round bullets was compared. Now, as we all know, it is impossible to cut with a cherry a perfect round-ball mould, so Shackelford pressed-out the cavity in a mould, using a steel ball, and by exercising great care succeeded in producing a mould which would cast a ball that was less than .001 out of true. This ball we tested in one of the rifles, in comparison with a bullet that was out of round more than .005, and if there was any difference in accuracy it was in favor of the latter ball. However, we are not convinced by this, and we certainly feel better when using the true bullet.

All of the best-known materials for patching were used, and after many trials we finally decided that linen was the best. We used

recoil became unpleasant, only changed the center of impact and did not affect accuracy; whereas we found that some of the sharper pitches were very susceptible to variations in powder charge.

Length of barrel does not affect accuracy—although a long barrel is a great advantage with open sights. Weight of barrel may run from nine to twenty pounds.

grooved barrel much more care is required in order to get the best results. Depth of grooves does affect accuracy, and depends upon groove width. Wide grooves may be a little less in depth than narrow ones, but must be cut with the bottom of the groove on the arc of a circle concentric with the bore. The grooves must be sharp, and all of equal depth, which latter may

what is commonly known as "coat linen." For the narrow-grooved rifle we chose a soft weave, as this fills the grooves well, while for the wider grooves we used a finer and harder weave, both being .015 in thickness. The reason we decided in favor of linen is that it is fairly uniform in thickness; also it will absorb saliva readily, and thus provide more uni-

form lubrication than any other material.

Now as to bullet size, the old rule still holds, and a bullet that will slide down the barrel under the weight of the ramrod is not far from being right. The tightness of the bullet with patch should be such as to require from eighteen to twenty pounds pressure to seat the bullet on the powder. The patch should fill the grooves, and we checked this by unbreeching the barrel and then pushing patched bullets through, varying the thickness of patch until the imprint of the grooves showed that the patch was filling them to the bottom.

We arrived at the powder charge by commencing with one dram of powder, and *increasing* the charge one-quarter dram at a time until the limit of accuracy was reached, and this proved to us that the old rule of one-fourth the weight of the ball in powder is still a good one to follow. This rule has been handed down to us for more than a century. This amount of powder will give a velocity of around 1400 f.s., which is about as high as can be had with a round patched ball, and retain accuracy. With the calibers that we were using we found FFg Kings Semi-Smokeless to give the best results.

Other things that affect accuracy in a muzzle-loader are the slow ignition, and the long sweep of the hammer and the blow it strikes the nipple. We discovered, with the aid of the telescope, that the blow of the hammer moves the barrel in spite of the steadiest hold with muzzle-and-elbow rest. The percussion cap is slow, and when the spark has to travel through a slender tube some time elapses before ignition is complete. We speeded up the lock action by shortening the hammer throw and using a very stiff mainspring. This was the English system, but appears never to have been adopted by American gunsmiths. We also used the nipple with cone-shaped opening, large end out. This, when the cap explodes, converges the flame so that it is driven through the small end of the hole with intense heat, thus quickening the ignition.

Then, powder residue is continually changing the shape of the powder chamber, and unless the rifle is wiped out carefully this has an effect upon accuracy. We wiped the bore carefully after each shot, being sure that the wiping rag reached to the bottom of all of the grooves. In wiping, the rag is moistened with either saliva or water, and care taken to see that it follows the grooves. The rag should be pushed down very slowly, so that the fouling will be moistened. After reaching the breech it is allowed to remain a minute or more, so that the powder residue in the chamber will be absorbed by the rag, after which it is carefully removed. The powder fouling in the grooves that was moistened

as the rag was pushed down, comes out very readily as the wiping rod is removed. The fouling on the rag is wiped off, and the rag then used to wipe the bore clean. It is important that one be careful to wipe the barrel the same each time; in fact this is one of the most important points in using a muzzle-loader.

We used a starter which seated the bullet to the same depth in the bore each time, and employed the old scheme of cutting the patching off at the muzzle with a knife, which insures the exact centering of the bullet in the patch. The bullet was seated in the bore to a depth of about 3/16-inch before the patch was cut off. We tried seating the bullet with the neck or sprue down, as well as up, but could see no difference in accuracy. However, the bullet should be seated the same way each time. In these tests we used both peep sights and telescopes, and found that there was very little difference between the two at 50 yards, the peep sight giving just as good groups as the telescope.

We also found that a very slightly tapered or "choked" bore gave the best accuracy. However, the bore should be but .001 or less larger at the breech than at the muzzle, for if too large it will permit the patch to "slip," which is one of the principal causes of off shots, and is caused by the fouling which sometimes accumulates at the breech. One of the most common causes of variation of shots on the target, especially in the case of an old barrel that has been dressed out, is the condition of the bore at the breech. When looking through the bore everything appears to be all right, but as a result of corrosion and lack of care, the inner surface of the iron at the breech has become porous and soon breaks down with use, and either cuts the patches or causes them to slip.

In the case of two of the barrels we worked over in our tests, the special reamers were used. The others were cut by the old method, one barrel being rebored and rifled. We employed a lead cast with saw for cutting the grooves deeper, using tissue paper shimming for

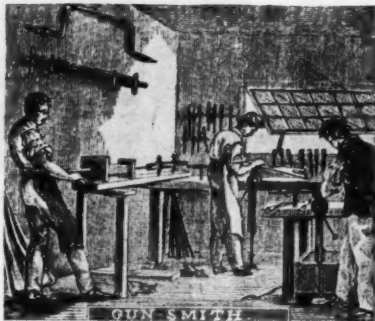
raising the saw. In the slow-pitch grooving we used longer saws, with more teeth, than in the case of the steeper pitches such as one turn in four feet, where we used not more than four teeth. The teeth were set two each way so as to cut in both directions. It is necessary that the saw be set carefully in the cast, or it will cut one side of the groove deeper than the other. Also, a lead cast as it works through the bore will wear and have a tendency to cut a wider groove.

We also used a land saw for cutting the lands. To secure the best results in cutting the bore by this method it is advisable to set brass guides in the lead cast, so that these will guide the cutter in the groove and prevent any tendency to widen the groove. The saw for the groove and the saw for cutting the land can both be used at the same time, and it is better to use them in this manner as it is then easier to get a true bore. When the bore is finished, a few slight cuts from the breech to near the muzzle will relieve the bore at the breech, and make better accuracy possible.

The great question as to whether modern tools and machinery can build a better muzzle-loading rifle than can the old methods, has been settled in our minds; the answer being most emphatically *No!* Modern machinery, gas welding, and electric furnaces can fashion the old tools more easily, and perhaps better, than can the old hand methods. But the old tools, handled in the old way, are still supreme; and we found it necessary to use the old long-bit on all but one barrel in order to get the best results. This so-called long-bit has come down to us from a dim and distant past, and is one of the oldest of gunsmith's tools. It was known in the remote past as the Armorer's Bit, and so far there has not been discovered anything to take its place. For in boring those long barrels or cutting down the lands, there is no other tool that will give so highly polished a surface to the bore. Skill and knowledge are required to handle it correctly, but when it is once mastered there is nothing that can take its place.

Some barrels can be redressed and made to shoot accurately, but it requires more skill and twice the time to do this than to rebore and rifle.

Those who attempt the work of reconditioning their own rifles, and have the time and patience to stay with it until they master the use of the old tools, will find that it is very gratifying to be able to restore one of the old-timers to its original condition. As to the muzzle-loading rifle being an accurate arm, even in comparison with our modern arms, we are satisfied that at short ranges and in competent hands it will stay in the black with its small-bore offspring of the present day.



Farewell to Adapters

By F. C. NESS

WHILE they may vary appreciably in length, breadth, thickness, and flexibility, all human hands are of the same general shape; and insofar as can be determined, that is the only basis upon which standard revolver stocks have been designed. It is true that any shooter can adapt his hold on any of these factory grips sufficiently well to obtain passable proficiency with them; and in fact some handgun manufacturers maintain that temperament, emotional reactions, etc., rather than physical factors, are responsible for the general interest in special handgun grips. Be that as it may, a grip that fits the hand, and feels right, gives the shooter a peace of mind and confidence which add pleasure to shooting and points to the score. Of course some shooters are fairly well suited by the standard factory stocks, but the general interest in special grips and the widespread practice of altering standard stocks, would seem to indicate that such instances are exceptional.

There are some practical grip adapters on the market with which handgun shooters have experimented in the hope of improving their grips and scores. Various finger-rests, thumb-roosts, palm-fillers, recoil-plates, and trigger-blocks are added to regular grips to compensate for some deficiency in the standard form. At best all these gadgets are makeshift devices, which by their very incongruity mar the inherent beauty of many standard arms. The particular gadget which is least offensive to my own sense of the esthetic is the S. & W. grip adapter, because it is almost concealed by the regulation walnut stocks. Its exposed filler-block, however, is too deep on the short S. & W. stocks to permit of a secure grip for broad hands, and

moreover it gives to the handle of the S. & W. gun an ugly, squatty appearance.

From the practical standpoint, none of the grip adapters fill the void left at the top of the frame above the standard factory stocks. This is a critical portion of the grip, because the matter of obtaining a satisfactory "feel" is largely dependent upon proper fit of the palm of the hand at this point. Also, any objectionable recoil-effect may be modified or accentuated by the shape and thickness of this particular portion of the grip, which is covered by the top of the hand. For example, the S. & W. grip adapter, admitting the acuteness of appreciable recoil in lightweight Smith & Wesson revolvers, provides side plates which broaden the back of the grip by $\frac{1}{4}$ -inch. However, these plates end at the shoulder-cut and thus completely fail to improve that reverse curve and thin frame above the stocks, which together are responsible for any severity in the recoil-effect which is directed against the upper part of the hand. Pieces of fibre or strips of rubber are sometimes taped in place to fill this void, but such patch jobs spoil any beauty an arm may possess, and detract much from the pride of ownership. This situation calls for a quality stock of improved shape to fit the average hand without the assistance of tape or grip adapters.

One shape of standard factory revolver stock has proven its merit and won popularity over a period of three quarters of a century, and is found in the handle of the Single Action Army Colt. In recognition of this fact, the H. & R. No. 4 stock is a pretty faithful copy of that old Colt grip, and has become the most popular of the several H. & R. stocks. It is too large or too thick for some hands, and is

set at an uncomfortable angle for others, but its general shape suits a greater number of different hands and fingers, and temperaments and tastes, than does any other standard revolver grip yet produced.

The H. & R. revolver and pistol stocks were designed by Walter F. Roper, who has made a searching analysis of shooters' preferences, and a careful study of their grip requirements; and he has not overlooked the upper part of the revolver frame as an essential part of the grip. At the same time he has taken into consideration the need for different depths and diameters to suit different hands and fingers, and holds; employing for all, however, the same general form, patterned along the lines of the S. A. Colt stocks. Roper has, for some time now, been marketing excellent checkered walnut stocks for Smith & Wesson revolvers and old-model single-shot pistols, which greatly improve the grips of those arms over the standard S. & W. product.

For Smith & Wesson Arms

Several months ago I reviewed in the "Dope Bag" the Roper revolver grips, after trying them on my old S. & W. K-Model target revolver. Recently I tried another pair of Roper stocks, designed for the large Military model S. & W. revolvers in .44 and .45 caliber, as well as for the Super-Police, Heavy-Duty, and Outdoorsman models, including the new .357 Magnum.

The Roper grips are such a definite improvement over the S. & W. grip that the Smith & Wesson factory might well adopt them as standard, especially for

(Continued on page 31)



THE ROPER STOCKS GREATLY IMPROVE THE OLD MODEL CAMP PERRY COLT WITHOUT IN ANY WAY MARRING ITS APPEARANCE



THREE S. & W. GUNS OWNED BY THE WRITER. THE TWO UPPER ONES ARE EQUIPPED WITH ROPER STOCKS, WHILE THE THIRD IS FITTED WITH S. & W. GRIP ADAPTER. IN THIS THIRD GUN, THE DISTANCE FROM THE FILLER-BLOCK TO THE BOTTOM OF GRIP IS ONLY $1\frac{1}{4}$ INCHES, WHILE THE ROPER GRIP ALLOWS $2\frac{1}{4}$ INCHES HERE



BACK VIEW OF THE SAME THREE GUNS. THE MIDDLE GUN IS THE ONE WITH THE S. & W. GRIP ADAPTER

Take Care of Your Rifle!

By WILFRID ROBERTSON

IT IS strange how certain men, energetic in most things, can be so incurably lazy and lax in certain instances. More than that, they pride themselves on that slackness. The tale I have to tell concerns such a man, and the consequences of his habit; indeed, it is a tale with a moral. The scene of its occurrence was in South Central Africa, amid the forests of the Zambezi River country.

The first time I met Goldsmith (as we'll call him) was on a hot October afternoon. I was traveling along a winding path through the trees *en route* for the more civilized parts, while he was outward bound on a shooting trip. Rounding a bend of the track I came face to face with a big red-headed man, over 6 feet tall and broad in proportion. He was clad in the ubiquitous shirt and shorts of the country, and was striding in front of a string of laden native carriers.

We both halted and fell into talk, and, as Goldsmith was a stranger to the district, I was able to give him useful information concerning the country ahead, the best game areas, and the locations of waterholes. After a quarter of an hour's chat in the shade of a big tree, we resumed our respective journeys.

The next time we foregathered was at a lonely bush store miles from anywhere, a trading post kept by an old friend of mine who made a living by bartering cheap cotton goods to the natives in exchange for grain. As conversation will when a couple of hunters meet, our talk turned to rifles, and the merits and demerits of different makes and bores. Presently I picked up Goldsmith's rifle—a falling-block weapon taking the British .303 ammunition—handled it, tried its balance, and opened the breech. Raising the gun, I glanced along the inside of the barrel, and noticed that the bore was exceedingly foul.

An uncared-for rifle is a crime. A good weapon is a triumph of the gunmaker's art, and it seems such a waste that it should be allowed to become neglected and spoiled. Also, to a keen hunter, his rifle is more than inanimate steel and wood; it is his friend and companion, and I was surprised to find Goldsmith's property in such a state.

"The barrel doesn't look too good," I remarked. "Why don't you clean it better? Looks to me as if you hadn't given it a rub through for weeks. It's even dirty and gritty right down in the chamber."

Goldsmith laughed. "Weeks? Months and years, more like. I never worry

about cleaning a rifle; too much trouble at the end of a long day. Also I reckon it shoots better if you don't; scrubbing away at the inside every day damages the grooving far more than a bit of cordite dust."

"That's all bunk," I retorted. "Besides, 'a little bit'? Why, it's so thick with dirt and rust you can scarcely see down it. Look at mine." I picked up my own rifle. "I've probably had it as long as you have yours, yet it's polished and clean inside so that you can almost see your face in it, and the rifling is clear and sharp."

"I never do any cleaning," he reiterated, "and I'm not going to change. Anyway, she's old. I'm getting a new one shortly, a Mauser, and this one will be scrapped."

"Going to take more care of the new weapon?" I queried.

"Never. She'll get the same treatment."

I shrugged my shoulders. "Not my business, of course," I remarked, "but you'll be sorry for your slackness in the cleaning line one day. Maybe you haven't had trouble yet, but you'll get it sure enough. As sure as we sit here, one fine day you'll be up against something dangerous and your rifle will jam. And then where'll you be?"

"Nah! I've hunted for years, and never had anything go wrong yet."

"Maybe, but you will," I insisted, "and then it will be too late to do anything about it. Isn't that so?" I turned to the storekeeper who had come up during the conversation. He nodded in agreement.

"Since when have you been a prophet?" grinned Goldsmith, turning away, and laying down the rifle which I had handed back to him. "Anyway, I'm not going to do a job I don't think necessary."

"All right, all right," I said. "It'll be your funeral, not mine. . . ."

* * * * *

The rest of the tale I had from the man who had been with Goldsmith on a long shooting trip. I met him returning alone, and this is the story he told me:

"Our camp was not far from the bank of the Zambezi River (he said), and a good spot for shooting it had proved. There was game about in plenty, and the bush was reasonably open and with but few patches of really impenetrable jungle."

"On the morning that it happened Goldsmith and I had, as usual, struck out in opposite directions from the camp at the first gray of the dawn. I took with me

the native that always accompanied me when out shooting, but Goldsmith struck out alone. He said that he was not going far, only just to have a stroll round and perhaps pick up an impala for fresh meat, and that he would be back in camp long before I returned.

"My morning's hunt took me some distance, for I wounded a waterbuck bull in some thick stuff, and he led me a bit of a chase before I was able to get him. I killed him in the end, however, and I and my native covered him over with branches torn from the surrounding trees to hide him from possible vultures until natives could be sent out to bring him in."

"When I arrived back at the camp, I found to my surprise that Goldsmith had not returned. Presumably he had gone farther than he had originally intended; most probably he had, like myself, hit something without dropping it in its tracks, and had been led off on a long pursuit. I thought no more about it at the time, but ordered the cook boy to bring along my belated breakfast, and dispatched several of the natives in camp to go with my hunting boy to the waterbuck I had killed and bring it in."

"I did full justice to the breakfast, for I was hungry after the long morning's work. Having pushed aside the empty plates for the cook boy to remove and wash up, I set to work to clean my rifle, wondering at the same time what possessed Goldsmith to be so careless and lazy about the same job for his own weapon. He had recently obtained a really good 9-mm. Mauser, and it was a shame to see the way he treated it. He would put it down anywhere, often in soft sand or in the full blaze of the sun, and as for cleaning it, I don't think I had seen him once pull the barrel through after a day's shooting."

"Well, to continue. Time slipped past and midday arrived, and still there were no signs of my companion. I had not yet become in any way anxious, but I was puzzled: had he got lost, I wondered, and been unable to find his way back to camp? He should have taken a native with him. I began to listen for signal shots, indicating his whereabouts."

"Presently I called up one of the natives who had remained in camp, and asked him what he thought about the matter of Goldsmith's prolonged absence. Had he, I asked, heard any shots before I had returned to camp, suggestive of Goldsmith having wounded something and followed it? (Continued on page 30)



OPEN, READY FOR USE

The Passing of the Old Tin Box

By E. D. SEYMOUR

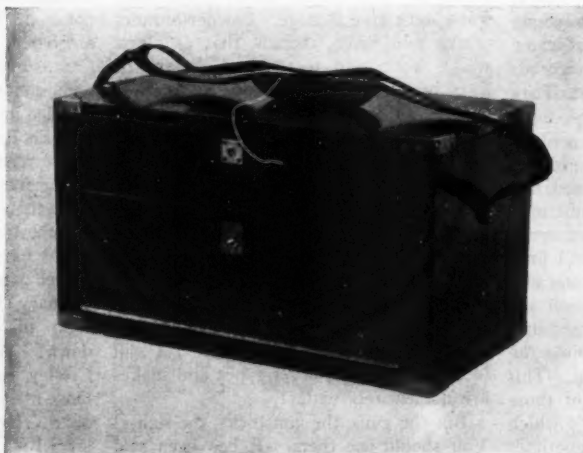
WAS there ever a "big-bore" enthusiast that did not, at one time or another, cast about for a suitable container into which he could dump his ammunition and shooting accessories, with the hope of being able to immediately put his hand on them when he arrived on the firing point? The writer thinks not; and, like the majority, he chose for the purpose one of those mechanics' tin boxes which can be purchased at any hardware store. But as the years passed and the impedimenta increased, the task of locating just the article desired, and restoring the remainder to a position such that the tin box could be closed, became exasperating, and at times productive of not very elevating language. Being somewhat handy with tools (as most riflemen are), one winter's evening a year ago I set about to design and build just such a kit as I always desired, using as my rule and guide that old adage: "a place for everything and everything in its place." The result was such an apparent success that when the kit appeared on the range in the

spring, it immediately became the center of attraction and—I must admit—some envy.

After trying out the kit a few times, certain shortcomings became evident, which were more or less remedied in a second kit, constructed for a friend. Even this second attempt was not entirely satisfactory, so a third one was constructed for another shooting pal, and this was found to meet requirements in every respect. Not desiring to have my own kit

inferior to the others, I made a fourth one, which, while similar to its predecessors, is superior in construction and in certain mechanical details. As this kit is so satisfactory, and so simple to make (requiring no elaborate tool equipment for its fabrication), it occurred to me that a detailed description, with illustrations, might prove of interest to others.

The outside dimensions of the box are: length, 18 $\frac{3}{4}$ " ; width, 9 $\frac{1}{2}$ " ; height, 10 $\frac{1}{2}$ ". The ends, bottom, and tray are constructed of $\frac{3}{8}$ " stock, the sides of $\frac{1}{2}$ ", and the top of $\frac{1}{2}$ " material, reinforced on the inside with $\frac{1}{4}$ " strips. The material used was basswood, although fir plywood, which is readily obtainable in the above thicknesses and



CLOSED FOR CARRYING

was used on the first three cases, is perfectly satisfactory if care is taken not to tear the outer plies in working. The $\frac{1}{2}$ " sides are mortised to a depth of $\frac{1}{4}$ " x $\frac{3}{4}$ " to receive the ends and bottom, while both sides and ends are mortised $\frac{1}{8}$ " deep by $\frac{3}{8}$ "

(Continued on page 29)

Letters of a Self-Styled "Marksman" to His Son

By P. L. AINFELLOW

Camp Perry, Ohio,
August 22, 1934.

Dear Tuck:

The old thrill came back when Willis and I arrived, registered, drew our things, and got settled in our assigned quarters. It gives me a tingle just to walk along under the elms and buckeyes back of the firing-line, and look toward the butts, or over them to the lake, and think what has happened here in years past, and what is about to happen within the next few days.

This is being written in the middle of the week. Some of the matches have been fired, but I'll write details of them later on.

No preliminary warming-up this time. The Camp Perry Individual came first, and it counts in the aggregate, so you can see that the battle has been on from the first shot.

Administration and management have been most excellent. You remember the scoring and pit service last year were handled by Ohio Boy Scouts. Those Scouts were a fine group of boys and they did their work very well, indeed; but such labor, day in and day out, is quite a task for boys in their early teens. This year a detail of the Ohio National Guard supplied the pit service. Who their officer was, or from where those Guardsmen came, I did not learn, but they were right on the job every minute. I saw but one error made, and that may not have been theirs. From the first day those young fellows went out on the run, and came back faster. Their speed was as vigorous on the last trip as it was on the first. They gave Service.

The double-target system, with a blank card a few inches back of the record target at 50 and 100 yards, was used this year for the first time. Given a punctured target and its backing card, the demons in the office can tell how many shots I fired for myself and how many someone else fired for me; and, if I put one on my neighbor's paper, the angle of measurement points that out, and also points the finger of justice at my firing-point. This very neatly settles the question of those wide, windy, wispy, suspicious 8's which used to appear so mysteriously (sometimes

EDITOR'S NOTE: Last year we published a "letter to Tuck" describing the experiences of a shooter at Camp Perry as seen through the eyes of the man on the firing-line. Many who came to Camp Perry in 1934 told us that the vivid, sympathetic description by an anonymous writer of the "letter to Tuck" had given them the courage to try their skill at the National Matches for the first time.

We believe that these letters from a father to his son back home, that we publish herewith, will be read with interest by the man who has never "been to Perry," and with keen appreciation by those who have been there. These letters of course describe the National Small-Bore Matches, but their description of the glamour, the color, the friendships, and the thrills need merely to be magnified tenfold to become a true picture of the complete National Matches: .30-caliber, small-bore, and pistol, which will be held at Camp Perry from September 1st to 19th this year.

to furnish an alibi) on an otherwise excellent score. When I am through with my allotted number of bursts and duds I can arise from my illegitimate elbow holes, my couch of scanty grass, and pack up and go elsewhere, secure in the conviction that "you can't fool the office." *Fiat justitia!*

From the schedule I am sending you will notice that half of the matches are for scope and half for metallic sights. Consensus of opinion is that this is right. Due to eyesight, intelligence or optimism, some lean distinctly to glass-sight shooting; on the other hand, and for largely similar reasons, others incline to the metallic. One clan is as hardboiled as the other, and is equally fiery in its contentions. Colonel Whelen gives the glass but a two per cent advantage over the iron, while some give it more. Powder-burners pretty well agree, though, that as much study, work, and worry is necessary to learn proper use of the scope as to learn proper use of the gun. My idea is that scope shooting demands more downright intelligence. I haven't learned it yet, so my seat is with the metallics.

As I ramble about the line it appears that Fecker still has the call on the scope business, with fewer of the 1½" "stove-pipes" used, due to their wind-gathering properties. The newer Lyman Target-spot is very frequently seen and is very much liked, with the dependable 5-A still in evidence; while other types and makes are not entirely extinct.

But the guns, the gunstocks, the sights! You should see them. It has been said

that this is a period of revolution, a time of self-thought, an age of protest. The small-bore shooter is, and always has been, a revolutionist, a self-thinker, a protestant. He doesn't accept given ideas unless they concur with his own or are fully borne out in practice. He doesn't follow the beaten path unless it leads reasonably in his direction and conforms to his fancy in wandering. He accepts what is spoken and written, even for his especial benefit, only so long as it proves better than his own self-mumbling and scrawled notebook. He flies in the face of science with his hair-brained ideas, and confounds the experts, at times, by

doing things just wrong—completely at variance with all reason and teaching, and still punches out good scores. And when, hitched up in this unorthodox manner, he spreads himself here on the range before the eyes of the world, and flips pills down there for a possible, what's to be done about it? That must be the way of progress, I suppose; the way new things arrive.

One toolmaker-shooter made his own tang sight, and, I understand, it is just about perfect. Another has a bolt-action made by some shark in Minneapolis, and it has attracted considerable attention. New and different front apertures, futuristic buttplates, and other gadgets are to be seen—all within the rules, yet products of thought, not fancy. Heavy barrels predominate, but, right beside them, a standard barrel will set a new record. B. S. A. actions and Yankee barrels; Vickers guns; home-made stocks; M-1 Springfield, speeded up; Stevens actions, as well as the historic Ballard; and all shooting mighty well. What to do, what to do?

For instance, you should see Crolley's gun, then look up his scores. Old-type Winchester falling-block action, original No. 3 barrel, original eight-inch forearm, swivel band soldered to the barrel; plain, ordinary stock and butt plate. And there, right in view of the experts—a take-down! What infamy! What sacrilege! Crolley turns it upside down, pushes a loose-fitting latch, and the thing pulls apart. Lyman tang and front; just regular. But, look at his scores, I tell you:

a couple of 398's over the Dewar course right now, and I'll wager he makes the team with that heirloom.

Then, you remember I told you about the elder Wiles' crooked gunstock—the one that is made right and looks wrong. It is an oddity, surely, as guns go, and makes you wonder whether *it* is upside down, or *you* are.

These shooters this year are a hard-bitten clan, both men and women. Tanned, booted, jacketed, and spurred; sunburned, fresh from other wars, eager to be up-and-at-'em. Some start with a rush and later slow up. Others begin at low tension but increase their tens and tempo until they are extremely dangerous at the end. Then there are those who hold 'em this way at a hot pace at the beginning, hold 'em that way to good scores later on, and hold 'em in the X-ring to win at the last; but I should say, they are in the minority.

It's going to be a dogfight from now on. We have a lot of the old guard back who can do things to a target; there are a number of new faces here that carry a capable, fighting look; and, as I see this crew, things are about to happen to the 10-ring. We have news that the British have practically equalled our record score of last year, and that they have put down the first 400 possible in the famous Dewar controversy, with a 399 and a couple of 398's to boot. So, with that as a fetish, we are about to circle the totem pole, take a whack at the war drum, and be off to battle.

Tighten up your belt, boy, hearken back to the blood of your forefathers, and prepare for the time when *you* get here. This shooting is just in its infancy they say; it gets tougher every year, and you're going to need all you have when you come.

And, with that, after I swab up the pop-gun, I'm to bed, to await the rising gun tomorrow. I plan to write you again just before I leave. There will doubtless be news for you of little Popgun. It is the only fusee I have for this work, and I'm depending upon the little fellow.

Do I have your best wishes? Okeh.

Affectionately,

Poppa.

Camp Perry, Ohio,
August 24,
7:30 p. m.

Tucky:

From what I wrote you last, you may get the idea that we are just Bolsheviks down here; free-thinkers, non-conformists. That we ignore what is said or written about the right way to do things in this shooting business, and that we do just as well with outlandish contraptions that scarcely resemble a gun. If you did get

that impression, dismiss it. I want you to understand that I was telling you about unusual things; things that were done wrong to all appearances, and still turned out right. But you must also understand that those are outstanding, rare examples of a happy combination of gun, shells, and man which succeed because of that fortunate combination, in spite of themselves—if you get what I mean. Understand that the modern bolt-action gun, built up in accordance with good engineering, by experts who know what they are doing, is far in the majority here; and that it will, day in and day out, out-shoot and out-perform the best of the unusual or accidental combinations. Those I spoke of before were the very rare ones, which (as I say) succeeded in spite of themselves.

Just called and found your letter at the post office. You certainly got that to me in a hurry.

You say you didn't know that women got right out and shot with the men? Well, they certainly do. And they are not mannish Amazons, either. A few years ago at the big-bore matches I saw more than one woman, weighing not much over a hundred pounds, go right out and shoot the Service rifle—the army gun that is supposed to kick like Sam Patch—and make a good score with it.

Yes, the fair ones are unseating us in our offices, exercising control in our national affairs, and, now, we have to look to our laurels in this shooting business. Is there no sanctuary?

And they are here, more of them than ever—the irresistible invaders, in this small-bore shooting. Good shots? Yes, they are good shots. They make a lot of the men hustle to keep up with them. Look back through those RIFLEMAN files of mine, and you will see that Mrs. Crossman made the Dewar Team long ago; and later Miss Ward from Chicago did, too. There are several girls and women shooting this year, and giving a good account of themselves. June Smith the first day shot a 484; Mrs. Holcomb, 483; Janet Ward, 481; all of them beating out such eminent target pluggers as Tekulsky. Mundy, and others (even me). In the Small-Bore Wimbledon, none others than H. H. Jacobs, Johansen, Lippincott, and more of us had to bow to fair femininity. In the two-man long-range match Elsie Hellwig outshot her illustrious partner, Hession. She far outranked him in the small-bore championship, and, to make matters decisive, neatly wiped his eye again in the short-range two-man. Privately speaking, I think if he would just let someone set his trigger-pull for him, and then let Elsie teach him to shoot, he might score better. Last year Mrs. Lord and a little

tike not over seventeen shot well enough to shame the men—the big, strong men.

And the celebrities are here; famous one, notorious ones; Eric Johnson—barrel-maker par excellence, trouble-shooter, advisor, dinner companion. Always busy, never too busy. Unassuming Doc Swanson; Walter Stokes, of International fame; dressy Jacobs; the incomparable Randle; genial Major Trull; soft-spoken Hamby; vigorous, warm-hearted Ripley; Handsome Hart; Fred Kuhn, who shoots with one knee drawn up *a la Wildgoose*, minus the bowler hat. Smiling, sparkley-eyed Klinkel; quiet Samsoe; the famous Wiles family; Willie Woodring; E. L. Lord. If I had words to complete the list it would include everyone here.

These people gather here, not because they are good at this sport, or think they are; not because they expect to win or make themselves famous. It is just the spirit of the thing. The spirit of clean competition; the joy of trying, and trying hard. And, if one fails, it is with a smile, not a growl or grouch. If he wins, it is with modesty and not pride. I have seen no jealousy, no ill feeling, but instead, a great deal of merriment and good companionship. They come from Maine, Missouri, and Muscatine; from Fargo, Chicago, and del Fuego. But all of them come here to burn powder; to smell powder smoke; to hear the crack of a gun and see bullet holes in the paper. The same normal, right-minded people that you might meet anywhere. (And, let me tell you, when rubbing elbows on the firing-line you just can't tell: the fellow next to you may be a doctor, a lawyer, or a merchant chief; a ditch-digger, or a Democrat. The stripes on his coat or the cut of his eyebrows won't tell you a thing. He's a shooter, and that's all you know—or care.)

And all the joy isn't there on the firing-line, or about the range. I may have time to write you about the hours off duty. The smart cracks when fellows get together in this tent or that; the pleasure of dawdling over a sandwich with a pal in the eating shack; the doggone downright pleasure of going up and down Commercial Row; the wide-eyed, open-mouthed bunch of bums around the bulletin board when a new "joy sheet" is tacked up. There is one tent in the village where, for some reason, the scrawled sign "WEeping POST" has been hoisted. Maybe that should be the name of the post that holds the bulletin board.

When I went into the Service during the War, some of us were sent to an outfit in an eastern state where we were to replace the regular troops—fellows who had been there months or years before we came. My idea of the Regulars had been that they were rough and tough and full

of fleas; that they fought among themselves, quarreled, and gambled; and I thought if I could just manage to keep the blankets on my bed, my watch in my pocket, and the strings in my shoes, I'd be lucky. But I was in for a surprise. They weren't too rough, they weren't too tough, and I didn't find a flea in the outfit. They didn't pick on us—they didn't ridicule us greenies. They showed us how to make up our bunks and how to stand inspection; how to know a field clerk from an officer, and how to salute, why and when. And when those fellows left, the blankets were still on our bunks, our watches still ticked, we had our shoes, and the strings were still in them.

That is what Camp Perry is. In the big matches there are troopers here, but they are fine soldiers and men. There may be old-time shots who have been from Quantico to the Golden Gate, but the older and more seasoned they are, the more kindly they are to the beginner. If you want to know the way to the flagpole (which is right over your head), or to Target 17 (which comes just after 16), ask any of them you meet. They will tell you, and they won't smile or ask you for a left-handed mike.

I have just had a personal experience which illustrates the point. We began here on the 19th. A little over three days had gone by, and I began to suspect there was something wrong. First, I had a misfire at the long range. Next day the same thing. More misfires, and a shot-gun pattern on the target. And then it dawned on me: Little Poppun was trying hard but just couldn't carry on any farther. You remember how well it stood by me last year; how indifferently I had regarded the little gun at first, and how it shamed me for my lack of confidence. How I almost kicked and cuffed it about before I recognized it as a thoroughbred, and how it went right on and kept its head (and mine) up in the tightest race we ever had—and now it was down.

Tenderly I carried the little fellow back to the shack for examination. The gun doctors there found several things wrong, wrote their recommendations on a card, hung it to the bolt, and ordered complete rest and a major operation. There was nothing more to be done, so it was carefully wrapped up and laid away, with hopes for better days.

But from just such things, boy, we find our friends. It may be that sportsmanship is not all confined to this shooting game. You and I have seen fine examples of it in other places; but I really think there is more of it about a firing-line, whether in Maine, Missouri, or Muscatine, than anywhere else. Where else can a fellow lay down his entire outfit—a good many dollars' worth, leave it right there in the

crowd, go back to his tent, take a look at the scoreboard, take a nap, chat with his friends, and then find it all there when he comes back? And where else can a wounded battler receive such help from his enemies? That sounds awkward and odd, and it isn't much of a question—but listen to what I am telling you!

Poppun was retired. It was the only gun I had. I was helpless, down, discouraged. I had battled and broken my lance. And what did my enemies—those other competitors, do? Did they take advantage of me? They did not. Fred Kuhn measured headspace of the bolt to see if that was the trouble, Eric Johnson dropped whatever he had in hand and gave his suggestion, Kenyon said I could shoot his gun that afternoon; and then, here comes Cooper and tells me he has two guns along and I could just as well use one of them, all through the rest of the matches, if I wished. He even told me what the zero was for the sights, and set them for me. He told me what ammunition gave best results in it, and even offered me some of his own particular lot!

There were my "enemies" doing their best to help me beat them. They were giving me every opportunity to get back into the game: the very game where we were opposed to one another. I call that sportsmanship.

And there, my boy, you have a very dim and incomplete picture of these people. When you come down here some day you will understand what I am trying to tell you now.

It is late. I'll be back in the fray tomorrow.

Good night,

Dad.

Camp Perry,
Afternoon, August 26.

Dear Old Tuck:

And now it can be told. The matches are over. Each and every one is checking out—going to where he came from, refreshed by a grand vacation, perhaps the gathering of honors and medals, and the making of new friends and acquaintances. Not all of us can win medals and honors—not all of us can point to our names near the top of the bulletin, but all of us have had a great vacation out of this, and all of us have made new friends. It has been worth the trip just to be here.

Was it a set of matches? Old Bud, it WAS!

I remember hearing the coach at school once say to his track team: "Don't try to run on your reputation. Some of these boys from the bushes may never have heard of you and may not know a thing but to get down and go, so you'd better forget everything else, and dig in right now." And that's the way it is here. Fel-

lows have come here with nothing but a gun, a clear eye, and a pair of elbow-pads. They have started shooting, kept it up, and, impolite as it may seem, have crowded great reputations right off the end of the shaky limb.

You think I'm preaching? Well, I'm not. Names and figures from the "stittik" office will back me up. You just can't imagine the aggressive, independent spirit of these newcomers. They are making us like it. Maybe we gulp a little, but we are "liking" it, nevertheless.

First, the Railway Team Match. You remember that's a Dewar match between railwaymen's teams of Canada, England, and the United States. Even though our fellows had to scratch to make up a team of genuine railroaders, they did it. I know. Told them I'd ridden on lots of trains, walked down many tracks, and had thrown rocks at plenty of insulators; but they just wouldn't listen. I just didn't have what you call *entree*. Must be a rail service man to get on, that's all.

But I know something about those railroaders. Yes, some that were here. A buddy and I were playing cribbage in our tent, and we were good at it. Then, some way or other, we found ourselves hitched up in a four-handed game with a couple of rail men. Whether they were hostlers, brakemen, engineers, or master mechanics, I know not, but I do know that those old cinders could find a deuce, a six, or a seven when it was needed; and a whale of a lot about that cribbage game they taught us. Most of them are not young men, but they talk the same shoot-Latin as the rest of us, and shoot well enough to keep on top in their international scramble most of the time. They did it this year, too.

And we are coming, step by step, through the team matches to the climax. Just as in the original National Matches, each day the pressure becomes a little greater, the tension just a little higher, the effort more serious, the atmosphere a bit more tense, with a little more static in the air. To all appearances, as fellows meet, chaff, and talk, you might not realize it, but it is there: the rising tenseness, internal pressure, grim seriousness—all hidden beneath good-natured guying, strained smart cracks, a pretense at reading the paper, an assumed carelessness. Under that sort of pressure things are bound to happen, and they did happen.

Under this pressure the R. W. S. match—the competition induced by a sporting German challenge to America and England—was fired. That International 50-meter target is rather new to us. Many of our experienced men have not fired on it at all, and scarcely ever, until lately, has this target been used in club competitions. It is an easy target on the eye,

most excellent for iron-sight shooting, but it has in its center a 10-ring that is hard to nick for a great many shots in a row. However, this team, under the able captainship of V. Z. Canfield, put up a new record. One of these "new shooters" named Bond went for a clean score for the 40 shots and a world's record that can't be beaten, the team rolling up a total of 3969.

The Fidac International—that private quarrel between the eleven nations allied during the World War, and open only to its veterans, came along for attention. And, I might say, it received proper attention. Last year we heard that the British had a "hot" score in this match, and that the Yanks would have to buckle into their slings to pass it. We did manage to pass it by three points—only that, and this year's team showed how it could be done by raising the score three more points. So you can see what caliber of shooting has been going on here. One fellow—the same one who did it last year—went clean over the twenty-shot course, but nobody was far behind him. A close, even, bang-up team.

And ever the rising tension. More of a hush now; less jollity; more seriousness. A grim look on most faces. Thin lips—a fighting look. If they hadn't been the fighting type they would not have been here—unless to enjoy the atmosphere, the holiday, the shooting paradise. If they hadn't been the fighting type they would not have been on those teams, for a fellow doesn't get there by accident, a turn of politics, a famous name, or a fit of the winds. He writes his chances with the end of his gun, down there where there is no recall. Many a fighter has failed to make it because of a fit of the winds—a little misfortune that cost a point; but no crack of fortune puts him on. He shoots for it.

The famous Dewar, one of our oldest competitions with England or anyone else, was still to be fired. This is, truly, the famous Dewar. Just why, I can't tell you, but everything in small-bore points to the "Dewar." Club and interclub competitions make their Dewar course the standard test of a competitor. It forms the backbone of various matches, and individuals use it as a measuring stick of their small-bore ability.

Early this morning I awoke to mysterious noises. There was the clatter of guns and equipment; there was a clumping along of uncertain feet in the dark; whispered or mumbled conversation; muffled laughter as someone stumbled over a tent peg, and the acrid, emphatic words of the stumbler. For all one could tell it might have been duck hunters floundering along to a spot near the shore for a day's shooting, or deer hunters stringing out to their stands before daylight.

What was it all about? It was that outrageous, hardboiled Dewar team that had been summoned to be on the firing-line at 6:30. Time for rising, for a hurried small breakfast, and to get ready for shooting at the appointed hour meant rising about 5:30; and at 5:30 in this latitude it is almost dark. And when we realized that it was nearly day again, that we each had a little to do on his own account, and that this affair Lord Dewar started was about to be settled for the year 1934, we tumbled out, too.

How many of those fellows had slept well? How many of them were nervous and uneasy? How many could arouse themselves at this hour and be a credit to themselves and Uncle Sam? It was a question. True, external conditions were most perfect, but how about the internal—the man himself? Well, anyway, the team captain had ordered them out at this unseemly hour, and out they were. Sketchy breakfast, and on to the line. Getting daylight now. Sights were set, sights were blacked. Coaches were named, and, one by one, still a little ghostly, dark forms crept to their pegs at the line. No loud commands, no shouted words; every man on the pit detail knew his job, every coach his man, every officer his duty. There was no "do or die for Dear Old Siwash"; there was no blustering self-confidence; no fearful chattering of teeth. That was all past. Nothing now but the calm self-confidence that does things.

Almost to the tick of a minute everything was ready. The targets were in place, the men in their positions, their coaches beside them. The light was soft and gray, the wind hushed. Well, indeed, had the captain chosen the hour—the time for superior scoring. Then, in a moment—without haste or excitement, the command

to commence firing was given. Lord Dewar's little affair had begun.

Now, my first training was with the military rifle. That old gun goes off and lets you know that the trigger has been pulled, the striker has fallen, and that a bullet is on its way. You know it by the blast and jar of your whole anatomy. That blast and crack were something to get accustomed to; and, accustomed to it, you felt almost oppressed by the silence when "cease firing" was given. So—in days gone by, having become accustomed to the big gun, I one day visited the small-bore range down at the far end of that mile-long firing-line. They were at it down there, hammer and tongs, in some match or other. But that little spit! spit! of the small-bore sounded like somebody striking quick matches, and the audible "tick" of the little pill on the target—long, it seemed, after the gun had gone off, was almost something to laugh at. But you have heard of those "who came to scoff and remained to pray"; and that there was something to this small-bore business I later found out. And today, on this particular morning, those matches scratched and those bullets ticked something new in small-bore scoring.

Hot-going, every man. The 50-yard stage looked too good to be true. Could they keep it up? Would the wind stay down, or at most, simply whisper? Would somebody break?

Hundred-yard stage up. Anything reasonable here would look good: the same pace would be a positive win and perhaps a record. Early shots at this range, excellent. The coaches had their men well in hand and the groups were well in the 10-ring. A look through the scope showed shaping-up matters that could scarcely be true. And it kept up, shot after shot—on and on! And, to be brief, Buddy, it finished that way.

Until this year there never had been a perfect score shot in this match. A member of the English team did it first; and considering the number of years that this match has been on, that was no mean feat on his part. Good thing they shot first, however, for *two* of our men did it. Sam Bond, who also had the first possible in the R. W. S., put one on his paper; while Willie Woodring—that congenial, serious, hard-shooting little pup, did it too. The superlative shooting by the whole team calls for greatest praise, especially since more than half of them were men new to this squad; and we salute them. But again our hats come off to these 400-men.

And there it is, my boy. With that it was all over. We had a Dewar record last year that was expected to stand for a long time. This team has just passed it so completely that it looks mediocre.

Your Poppa.



Loading Data—.35 Whelen

By O. H. ELLIOTT

South Haven, Michigan

Test made in Niedner 26" barrel, 12" twist of rifling.

Bullet Weight	Powder Charge	Kind of Powder	Muzzle Velocity	Muzzle Energy
130	20	80	1600	761
"	26	"	2020	1176
"	30	"	2300	1502
150	20	80	1525	773
"	25	"	1875	1170
"	30	"	2220	1640
150	56	17½	2600	2248
"	60	"	2850	2692
"	64	"	3100	3194*
150	56	3031	2720	2460
"	60	"	2940	2875
158	20	80	1520	809
"	26	"	1940	1318
"	30	"	2120	1662
200	53	15½	2200	2146
"	59	"	2470	2720
"	63	"	2650	3110
200	53	17½	2370	2490
"	59	"	2700	3235
"	63	"	2920	3780*
200	57	3031	2670	3148
"	60	"	2830	3551
220	58	15½	2475	2966
"	60	"	2565	3214
220	57	17½	2590	3272
"	59	"	2690	3530
"	61	"	2790	3800*
220	62	1147	2595	3285
"	66	"	2775	3756
220	56	3031	2600	3300
"	58	"	2700	3556
"	60	"	2800	3824*
250	56	15½	2380	3134
"	60	"	2540	3576
250	53	17½	2390	3164
"	57	"	2550	3604
"	59	"	2630	3835*
250	58	1147	2440	3300
"	62	"	2600	3747
250	55	3031	2520	3520
"	58	"	2670	3951*
275	55	15½	2290	3175
"	57	"	2380	3460
275	52	17½	2300	3227
"	56	"	2460	3690
275	54	1147	2220	3005
"	60	"	2460	3690*
275	53	3031	2350	3367
"	56	"	2480	3750*

* Best for maximum loadings.

NOTE: The above data is published in response to a large number of requests received by Mr. Elliott for additional information on loads for the .35 Whelen cartridge.—Editor.

Principal Contributors in This Issue

E. A. BRINSTOOL, of Los Angeles, is perhaps best known today as a writer of Western history, although from early boyhood he has been a great lover of firearms. His shooting dates back to the old black-powder days, during which time he owned and used practically every make of rifle manufactured in this country.

HARVEY A. DONALDSON, of Little Falls, New York, is a gunsmith who handles all classes of work, but makes a specialty

of Schuetzen rifles. He says: "My rifle shooting and experimenting was started along in the spring of 1895, and I have been at it continually ever since. For a number of years my specialty was making a Schuetzen rifle perform."

In Part III of "The Rifles of Yesterday," which appeared in our June issue, we neglected to state that certain of the rifles illustrated belong to Mr. Donaldson. These rifles are: the two shown on page 6;

the lower one on page 7; the second and third on page 8; and the second from top, and the bottom one, on page 9.

WALTER M. CLINE is an authority on muzzle-loading rifles. He knows his muzzle-loaders from every angle, having learned to make them when a boy.

In the mountains of Tennessee, muzzle-loading rifles are still used for hunting and target-shooting. There are still gunsmiths there who make the old rifles in the same manner in which they were made in the early days; and Mr. Cline has been steeped in this atmosphere for years.

WILFRID ROBERTSON, recently returned from Africa, now lives in Oxfordshire, England. In an interesting letter on his experiences he says, in part: "From a boy I was always keen on shooting and firearms generally, and the lure of the wild has always been strong in me. At the age of nineteen I left England and went out to Rhodesia; then a far less known and much wilder part of Africa than it is today."

E. D. SEYMOUR lives in Westfield, New Jersey.

Writes Mr. Seymour: "One of my earliest recollections is going afield with father and grandfather, who from the beginning instructed me in the use and care of firearms. My fondness for them is indeed a heritage, as one paternal ancestor, a hunter and trapper for years, was unfortunate enough to stop a British ball at the burning of Buffalo in 1814."

CONCERNING PISTOL MARKSMANSHIP

Editor, AMERICAN RIFLEMAN,

Dear Sir:

From time to time the writer is duly awed by reading of the magnificent scores made by experts on the numerous pistol ranges throughout the nation. The very *crème de la crème* of its pistol shots appear in contests in which accuracy of shooting, developed to the *nth* degree, is fully demonstrated. Targets are punctured with admirable exactitude by experts armed with the finest, most carefully-sighted weapons, standing in the most approved positions, and having all the advantage in time-element consequent upon the fact that the targets cannot move and cannot shoot back. In other words, the "breaks" are all in favor of the shooter.

The writer, who is well along in years, spent his youthful days in the mountainous interior of California with an uncle who had been a plainsman, a buffalo hunter, and one of Custer's scouts, who later became under-sheriff of Mono County, California, in which lay the historical town of Bodie where the by-word

was "A man for breakfast"; this saying being meant to express the fact that, during a considerable part of the "boom" period, rarely a day passed in which one or more men were not shot in gun-fights or assassinations. At that time the ability to shoot quickly was regarded as conducive to longevity.

My uncle's job was no sinecure, but he got away with it and lived to become a stockman in British Columbia. He was a lover of the outdoors and of the rod and gun. Also, to me, he was a hero. He repaid my devotion by allowing me to assist in maintaining his arsenal in condition for service. "Arsenal" is the correct term, because it consisted of a number of shotguns, of rifles including Winchesters and such old-timers as Sharps, Henry, and Ballard, and also many revolvers of various makes and calibers. There was also a veritable magazine of ammunition.

My uncle (his name was "Bill" Wilcox) took pleasure in teaching me the proper use and care of these weapons, and began by impressing me with the fact that it was unsportsmanlike to shoot at any game bird that was not on the wing. He generously placed at my disposal an unlimited supply of ammunition, and turned me loose. In pistol practice he liked to see me riding at top speed, trying to hit bottles and cans placed on fence posts or rocks, and he rejoiced with me whenever I made a particularly good shot. However, while he succeeded in making me a fairly fast and accurate gunner, he forever spoiled me from acquiring the patience required to stand facing a paper target, draw a long breath, hold it until I almost choked, and in that manner fire shot after shot in an attempt at microscopic accuracy. It has been my privilege to witness the performances of many fine pistol shots among my uncle's friends and associates, as well as among my later acquaintances, but I am not going to dwell upon them here. Details of such character seem invariably to lead to exaggeration to the point of absurdity, and discussions are liable to wind up by someone being called a liar. However, I have observed that it was not meticulous accuracy of shooting that these men deemed most important and which they strove to attain; *speed* in drawing and shooting was the prime consideration.

Let me ask this question: How many of the splendidly equipped and trained pistol experts that we see photographed in correct shooting poses can draw, *with either hand*, and fire within two or three seconds, six shots from a revolver, putting at least four of the six shots into an object the size of a man's torso, at a distance of only twenty feet? No doubt many can do this, but what is the percentage of all pistol shots that can?

It has been my observation that the attempt to secure extreme accuracy in shooting slows a man down enormously. Two years ago I did a lot of target-shooting with a rifle. When the duck-season opened I found I had fallen off terribly in speed with the shotgun, and my leading was faulty. It took me too long to aim. Let a trap shot try to hit a blue-rock with a shotgun in which there is considerable trigger-creep, and he will realize what I mean.

I have seen some men shoot very fast without appearing to aim, apparently doing so by pure instinct, but actually because of long practice. Riding horseback, with the gun joggling about, they seemed to catch an aim and pull trigger at just exactly the right moment for a hit. Practice is what enabled them to do this; the same arduous practice that a juggler must have in order successfully to accomplish his feats of legerdemain.

I do not, by the foregoing remarks, mean to disparage in the slightest degree the thousands of magnificent shots who frequent our pistol ranges. They are wonderful performers. I only mean to say that there are two widely different methods of pistol practice, and but one of them really interests me. Unfortunately this requires the expenditure of ten or more cartridges for each one used in ordinary target practice, and a more well-filled purse than mine; but I hope it will gain in favor, after which it will rate in interest about the same as real, old-fashioned shooting on a duck-pass, as compared with the mechanical art of trapshooting.

I am well aware that my opinions, if discussed, would be greeted with a storm of criticism, but I believe that most of it would come from those who have learned to shoot in but one way, and that not the way that I have been familiar with and learned to admire. They are fine mechanics, but not artists in the use of the handgun.

There are a number of real pistol artists in this country, among whom Mr. Climen-son rates high in speed and precision of fire. His performances in these respects are truly remarkable. It is said that he can draw a gun from its holster and make five hits within the time of $1\frac{1}{2}$ seconds. Years of steady practice (and a ton of ammunition) are required to qualify for such a feat.

W. A. BARSTOW.

PASSING OF THE OLD TIN BOX

(Continued from page 23)

wide to receive the $\frac{3}{8}$ " tray bottom, which, being fixed, adds greatly to the rigidity. While mortised construction is desirable, butt joints, with strips to support the tray, would have served had a dado plane and circular saw table with

dado head not been available. Glued joints, reinforced with wire brads, were employed throughout.

The tray, $2\frac{1}{2}$ " down from the open top, is mortised to a depth of $\frac{1}{8}$ " to receive $\frac{3}{16}$ " x $\frac{2}{16}$ " partitions, which provide a separate place for the following: spotting scope; scope stand; vernier glass; cleaning dope; patches; jointed cleaning-rod and gun rest; sight-black bottle or piece of plumber's candle; box of white and box of black target pasters; removable block holding two Lyman 48 sights and tin box containing inserts for 17A front; space for tools, spare parts, spot-ters, and other miscellaneous small articles found in every shooter's kit.

The $\frac{1}{4}$ " reinforcing piece on the inside of the flat cover is glued in place, and so placed with respect to grain that it will counteract any tendency of the cover to warp. Brass piano hinge (which is not over 25¢ per foot) affixed with $\frac{3}{8}$ " No. 4 flat-head brass screws attaches cover to box. A Yale brass chest lock, mounted on a wooden pad on the front of the upper or tray compartment, and having a cylinder of sufficient length to pass entirely through the $\frac{1}{2}$ " stock, permits the case to be securely locked if desired. A brass chain keeps the cover from opening too far.

The lower portion of the box has cut therein, on the front side, an opening approximately $5\frac{1}{4}$ " high by $15\frac{1}{4}$ " long. The spaces from the inside ends of the box to the edges of this opening measure exactly $1\frac{1}{4}$ ", and accommodate the cartridge blocks to be described later. A door or drop-panel of $\frac{1}{2}$ " stock is fitted to this opening, and attached with piano hinge on the bottom edge, this edge being $\frac{1}{2}$ " from the inside bottom of the box. The outside of this drop panel has a Corbin No. 03332 $\frac{1}{4}$ " flush ring, $1"$ x $1\frac{3}{8}"$, mounted thereon, permitting the panel to be pulled open when two slide bolts affixed to the inside front of the box and operated from the upper or tray compartment, are raised and thus disengaged from their respective strikes mounted on the inside and top of the drop panel. Also mounted on the inside of the panel are two clips made from $1"$ and $\frac{1}{2}"$ half-hard 20-gauge brass, these serving to hold a loose-leaf score sheet firmly in place, no matter how the wind may blow. A clip such as is used to hold a pencil in the pocket, but with the spring removed, is soldered to one of the score-sheet hold-down clips, and assures a pencil being at hand when needed.

At each end of the lower compartment are four white-pine cartridge blocks, each $1\frac{1}{4}"$ wide, $3"$ high, and $4\frac{3}{8}"$ long, in which are drilled fourteen $\frac{15}{32}"$ holes $2\frac{3}{4}"$ deep on $\frac{9}{16}"$ centers. These blocks are arranged to slide into place on end, and are brought to a stop in the proper position by $\frac{1}{2}"$ half-hard 20-gauge brass

catches operated by the finger from the front. The operation is as follows: A block entering the opening depresses the front catch and is slid back until a second catch is encountered. The front catch is then fully depressed with the finger, which drops the second catch below the track and permits the block to go entirely to the rear of the box, where it is pushed to one side against the end. It is prevented from moving endwise by a fixed wooden stop. A second block is now inserted, and is pushed clear to the rear, beside the first block. A third block, on coming up against the inner spring-catch, is pushed sidewise to the end of the box as was the first block, while the last block comes to a stop against the inner spring-catch, with its case ends conveniently exposed just inside of the end opening of the drop panel, and is kept from moving endwise by the outer brass catch which automatically springs up into place. As on a majority of firing-points not over 12 rounds of ammunition are required, a 14-hole block was used, so that there is always one empty hole between a fired and an unfired case, telling at a glance the number of rounds fired or still to be fired. When not firing in the prone position a block of blocks can be slid out and used wherever desired.

The space between the two sets of blocks is utilized to carry a score-book, shooting mitt, and elbow pads; also a shooting coat, tightly rolled, and at times a pistol and its ammunition. A small thermometer is mounted on the inside rear. A 3" x 3" x 1/4" piece of asbestos board affixed to the under side of the tray bottom permits the use of a candle inside the box for sight-blackening purposes.

The interior of the box is finished in white shellac, sanded and rubbed with pumice to a satin finish. The space for tools, spare parts, etc., is lined with brown felt, while felt stops, or buffers, are employed at the ends of the scope and cleaning-solution bottle.

The exterior is finished in a dark olive green enamel such as is employed on metal filing cabinets. The corners are protected with brass corner pieces, while 1/4" x 1/2" x 1/16" brass angles, flush with the wood, prevent the carrying strap from chafing the top edges. The strap is a portion of a gun-sling, so arranged that it may be extended if it is desired to carry the case from the shoulder. The strap is attached to the case by 1/4" brass machine screws, while 1/4" copper-tubing ferrules slightly longer than the thickness of the strap itself provide a swivel action which permits of the strap being pushed to one side when the cover is opened. The absence of any protrusions eliminates the possibility of the case catching in the clothing while being carried; and the box itself makes a good seat if necessary.

The cost, using the best material and hardware obtainable, purchased at prevailing retail prices, was just a few cents over seven dollars.

The dimensions of such a kit will of course vary with the equipment it is to accommodate. The inside width, however, cannot be less than approximately 8 inches, which is determined by the length of two loaded cartridge cases, plus the depth of wood in the bottoms of the block holes, plus about 1/2" for clearance between blocks and front of case. If any reader considers the construction of such a case, it is suggested that to obtain dimensions he lay his gadgets out on a flat surface, and juggle them around until the most compact arrangement is found, making provision, of course, for the thickness (3/16") of any separators or partitions.

One thing more: Mount the various sections of a jointed rod so that they are against, and can be rolled up, the side of the partition; otherwise a pair of tweezers will be required every time you want to use said rod.

TAKE CARE OF YOUR RIFLE!

(Continued from page 22)

"We heard one shot," was the reply, 'and that was not long after the white man left the camp. It sounded from over there'—he pointed—'not far from the patch of dense bush where you shot that buffalo four days ago.'

"I remembered the spot; it was about three-quarters of a mile from the camp.

"To go out and look for the absentee would be on a parallel with seeking the proverbial needle in a haystack; he might be anywhere within a 10-mile circle. However, another hour having passed, and still no sign of him, I decided to go out with a couple of natives to the spot whence they had heard the shot shortly after sunrise. Though the ground was iron hard, there might be a chance of being able to find something in the way of spoor or some other indication suggesting the reason of Goldsmith's prolonged absence.

"I and the two natives reached the approximate locality from which the latter reckoned the sound of the shot had come. From here we began to quarter the country; moving among the close-growing trees and underwood in ever-widening circles, and keeping a sharp lookout for spoor or other signs of the missing man.

"We had been searching this area for about 20 minutes when the native moving on my right, and about 30 yards from me, gave a sudden call. I ran to where he stood, and lying beside a bush I saw—Goldsmith's rifle.

"The sight of it gave me a shock. I bent down and picked up the weapon. The bolt handle was turned upwards as if to

withdraw the bolt, and I endeavored to pull it fully back. It would not budge. I jerked at it and found it still immovable; it looked as if the empty brass shell had stuck in the chamber. I wrenched harder, still without result, and then I called to one of the natives to pull on the barrel while I tugged with both hands at the bolt. Wrench, wrench, wrench, and then something gave; the bolt shot back with a snap and the empty brass sprang out. I picked up the shell; the cause of sticking was obvious. Old grit and powder dirt had been squashed tight between it and the walls of the chambers. It must have needed a sharp jerk to send the cartridge home before it was fired, and that jerk had jammed it tightly. The penalty of a foul and uncleaned barrel! Why, however, I asked myself, had not Goldsmith returned to the camp that was so close and knocked out the brass with a cleaning rod? Why had he abandoned the rifle and vanished?

"At this moment the other native gave a shout. A few paces away, and lying behind some foliage, he had found Goldsmith's sun helmet; and, more ominous still, close by the hard ground was marked as if with a struggle, and there was a large pool of blood. Was the latter Goldsmith's, or that of the animal he had wounded? And then I knew what the animal was, for it had trodden on the edge of the pool, and around were several spoor prints off on the ground in blood. The spoor was that of a lion, or, as we discovered later, a large lioness.

"I was now thoroughly alarmed. With all haste I must follow up, and find out what had happened to my companion. I sent one native back as hard as he could run to the camp for more trackers, while I and the other native searched around for spoor. The blood on the lioness's paw had dried rapidly, and the soft pads had made no impression on the hard soil; but we found some draglike marks leading away from the scene, and beside them a series of goutts of blood.

"The event of the morning was easy to reconstruct. Goldsmith had come on the lioness and had fired at her, probably wounding her slightly. He had tried to reload, but the rifle had jammed, and the enraged beast had sprung at him and struck him down. Instead of passing on, she had obviously stood over him and sniffed at his prostrate form, and finally, gripping him in her teeth, had half-dragged, half-carried her victim towards some usual lair of hers. The draglike marks on the ground had been made by Goldsmith's trailing boots. The occurrence must have happened when the shot was heard shortly after sunrise, and by the time we had arrived on the spot it was 3 o'clock in the afternoon. I cursed

myself for not having come out sooner; but how was I to have guessed that a catastrophe had befallen?

"The fresh trackers caught up with us, and as fast as possible we hastened along the trail, the natives with their eyes on the ground and their spears held ready, and I with rifle forward and finger on trigger. I chafed fiercely at the unavoidable delays when the spoor was temporarily lost in passing over stony ground or through dense undergrowth. Fragments of Goldsmith's clothing, torn from his body as he was dragged through thick thornscrub, caught our eyes here and there, and remorselessly the gouty of blood—dry, cracked, and curling at the edges in the hot sun—reminded us of the time that had passed while we sat unwittingly idle in camp.

"Every moment we expected to come up with the lioness and her victim, or more probably with the latter's abandoned remains; but steadily the time passed, and still the intermittent spoor guided us onwards. Eventually it led us into a patch of thicker brush than the rest. We heard the sound of something moving among the dead leaves in front of us, hurried forward, and saw our quarry.

"The lioness was crouching in a little open space amid the trees, her ears laid back, and snarling fiercely in our direction. Beneath her paws I saw the outline of Goldsmith's tattered body. I fired straight at the snarling face, and the bullet struck true. The lioness collapsed and rolled over, and I ran towards where my companion lay.

"My God! he was in a terrible state, and, worst of all, he was still alive. The lioness's first blow had ripped him from chin to belt, and it had removed . . . but there, I'll leave it at that. Thank Heaven he was unconscious. While I did what I could in the way of bandages made from my shirt which I had torn into strips, the natives rigged up a rough litter of bush poles and grass. I am thankful to say that Goldsmith never regained consciousness, and he died a few minutes after we reached the camp.

"I buried him beneath a big *m'sangu* tree, and then I packed up and started back towards civilization."

MY FIRST GUN

(Continued from page 7)

paper. I carefully followed instructions "not to ram th' shot unless you wanna get th' tar kicked outa y'u." Then I drew back the big hammer, placed a cap on the nipple, carefully let the hammer down, and was ready to conquer all the game in Fisher's Woods.

A fat ham sandwich was tucked into my

overcoat pocket, and with solemn parental advice to "be mighty keeful now, boy," I pulled on my red yarn mittens, and, followed by a derisive "I betcha don't git NAWTHIN'" hurled after me by my small sister, I sneaked out the back door so that none of the neighborhood boys would see me, and cut across-lots toward the woods, which loomed black and wintry against the sky.

The sun shone bright and warm, and the snow had a crust strong enough to bear me, upon which about an inch more of snow had fallen, making ideal tracking. I was in my glory. I snuggled the old muzzle-loader, and remarked to myself that I was now able to put one over on the other boys; and I was even able to make a mental picture of their envious glances when I returned home, loaded down with game!

As soon as I entered the timber I proceeded with great caution. The lengthy old firearm was cumbersome, but I carried it at "ready," fully prepared for anything from rabbits to grizzly bears. The snow-covered crust was criss-crossed with tracks in every direction where the furry denizens of the forest had hurry-scurried about. Rabbit tracks were everywhere, and I even saw where a coon had apparently ambled around. Several rabbit tracks entered a brush-pile nearby, and I cautiously cocked the old gun, then stepped on the brush and began to jump up and down. Suddenly out popped a fat rabbit, dodging and doubling. Before I had time even to think of shooting, it whisked out of sight among the trees. Partridges whizzed away as I approached other brush-piles, but shooting on the wing was an accomplishment of which I knew nothing then.

Well, to cut my story short, by noon I had not been able to get a single shot. Rather discouraged, I shortly came to "Old Man Fisher's" maple-sugar camp, where in the spring he tapped the maple trees and made sugar and syrup. Here I stopped to eat my lunch. Of course I was disgusted, knowing full well how the family—and the neighbors' boys—would all laugh at me if I returned home empty-handed. I then started on through the timber again, and although numerous rabbits sprang from their hiding places within easy gunshot, I was always too slow. And further, it was truly surprising how impossible it seemed to get that big front sight on the game!

I knew it would soon be dusk, and that I was expected to be home in time to help with the chores about the house. As it appeared morally certain that I was doomed not to get any game, and as I was determined not to return home with the original charge in the old gun, I began casting about for a target. I stood idly leaning against a tree, when suddenly my

eyes were attracted to a movement near a clump of brush some little distance ahead of my position. Watching intently, I saw a rabbit jump from the brush and come running toward me. I quickly sidled to the other side of the tree, figuring that I might be able to get a shot at the rabbit if it passed within easy range. I cocked the old gun and took another look. Then my heart jumped clean into my throat. Bounding along on the trail of the rabbit came a big red fox! Trembling with excitement, I worked the weapon to my shoulder, where the muzzle wobbled about in a most alarming and unsteady manner. Would the big furry animal come within range of my antiquated old gun?

The rabbit passed about seventy-five feet to my right. Hot in pursuit came the fox, and apparently I was undetected. I held my front sight some little distance ahead of the animal, shut both eyes, and pulled the trigger! There was a deafening roar, and a cloud of smoke poured from the muzzle of the old charcoal-burner. I was keeled over backward by the kick, which, contrary to all expectations, the years of up-garret silence had not in the least subdued. As the smoke cleared away I looked—then looked again; rubbed my eyes in astonishment, and took yet another look. The fox was kicking about on the snow, crimsoning it with his blood! The old weapon had shot "true to form." A few more spasmodic kicks, and the fox lay still.

Yell, did you say? Why, the whoop I let out must certainly have been heard for five miles! My folks asserted that they heard it at the house. No Rocky Mountain hunter bowling over his first grizzly ever felt half as elated as did I—a fourteen-year-old kid, at bagging this, my very first wild game. And maybe I wasn't the proud youngster when I came staggering into the kitchen half an hour after dark, with that big red fox hanging down my back!

"Well, I'll be tee-totally flabbergasted!" exclaimed my dad in astonishment, as I dropped my prize to the kitchen floor, my eyes shining with elation.

Since that time I have owned all sorts and makes of weapons, and hunted big game all over the United States, but no gun that I ever owned, or any head of game that I ever killed, brought me half the pride and satisfaction as did my great-grandfather's old muzzle-loader and that big red fox—my first wild game!

FAREWELL TO ADAPTERS

(Continued from page 20)

any of their models which are adapted for heavy loads. The Smith & Wesson revolvers are comparatively light in weight in such models as the .38-caliber

F. Kenneth Van Houten, winner of the 2nd Annual 50 Meter Invitation Shoot, Amateur Rod and Gun Club, Newark, N. J. His enviable score, made with Palma Match, was 199 x 200.

The Victories

PIE
U
FOR

NATIONAL CAPITAL SMALL-BORE TOURNAMENT

Camp Simms, D. C.

MIDDLE ATLANTIC CHAMPIONSHIP (AN AGGREGATE)

1. Eric Johnson	1372	Palma Match
2. T. L. Harrell	1366	Palma Match
3. W. B. Woodring	1363	Palma Match

CAMP SIMMS 50-METER INDIVIDUAL

1. W. B. Woodring	393	Palma Match
2. T. L. Harrell	389	Palma Match
3. Wm. P. Thelen	389	Palma Match

NATIONAL CAPITAL LONG RANGE INDIVIDUAL

1. Eric Johnson	191	Palma Match
2. Charles F. Black	190	Palma Match
3. W. B. Woodring	189	Palma Match

NATIONAL CAPITAL SHORT RANGE INDIVIDUAL

1. Eric Johnson	398	Palma Match
2. W. B. Woodring	397	Palma Match
3. T. J. Arnold	397	Palma Match

CAPITAL HAL LEIZEAR MEMORIAL CHAMPIONSHIP

1. F. H. Werner	197	Palma Match
2. J. C. Jensen	197	Palma Match
3. W. B. Woodring	196	Palma Match

POTOMAC DEWAR INDIVIDUAL

1. Eric Johnson	395	Palma Match
2. T. L. Harrell	394	Palma Match
3. T. J. Arnold	393	Palma Match

SWISS MATCH

1. J. D. McNabb	18	Palma Match
2. W. R. Stokes	16	Palma Match

TWO-MAN LONG RANGE TEAM CHAMPIONSHIP

1. John Mesick		
J. D. McNabb	191	Palma Match
2. Wm. P. Thelen		
J. M. Tokar, Jr.	189	Palma Match

FOUR-MAN INTERCLUB TEAM LONG RANGE CHAMPIONSHIP

1. National Capital Rifle Club		
Frank Parsons, Jr.		
T. J. Arnold		Palma Match
W. R. Stokes		Palma Match
J. D. McNabb	377	Palma Match
2. D. C. National Guard		
J. C. Jensen		
C. S. Shields		
Alex. Thill		
T. L. Harrell	374	All shot Palma Match

TWO-MAN TEAM SHORT RANGE CHAMPIONSHIP

1. W. R. Stokes		
Hugh Riley	784	Palma Match
2. Eric Johnson		
J. C. Jensen	783	Palma Match

DOWN the groove and into the black! Time after time this happens when Palma Match long rifle .22's are slipped into the chamber. And when the scores are posted, most of the wins at most of the shoots are captured with this dependable ammunition.

What do we mean by "most"? Just read the scores of the Second Annual National Capital Small-Bore Rifle Tournament held at Washington, D. C. Right down the list it's

FOUR-MAN TEAM SHORT RANGE CHAMPIONSHIP

1. Hampton, Va., Rifle Club		
W. H. Lockwood		
W. H. McAvoy		
H. J. Reid		
H. W. Kirschbaum	781	All shot Palma Match

ALL RE-ENTRY MATCHES

50 YARD IRON SIGHTS

H. J. Reid	491	Palma Match
------------	-----	-------------

50 YARD ANY SIGHTS

J. D. McNabb	499	Palma Match
--------------	-----	-------------

50 METER IRON SIGHTS

F. H. Werner	491	Palma Match
--------------	-----	-------------

100 YARD IRON SIGHTS

Eric Johnson	499	Palma Match
--------------	-----	-------------

100 YARD ANY SIGHTS

Eric Johnson	496	Palma Match
--------------	-----	-------------

EIGHTH TRI-STATE SMALL-BORE MATCH

Portsmouth, Ohio

MATCH 1—50 YDS., 20 SHOTS

1. F. O. Eakins	200	Palma Match
2. John Pendleton	200	Palma Match

MATCH 2—100 YARDS

1. C. Huston	197	Palma Match
2. H. C. Martin	197	Palma Match

MATCH 3—AGGREGATE 1-2

1. H. C. Martin	395	Palma Match
2. Dr. E. D. Shumaker	395	Palma Match

MATCH 4—200 YDS., 10 SHOTS

1. H. W. Meiser	98	Palma Match
2. F. O. Eakins	98	Palma Match

MATCH 5—AGGREGATE

1. H. W. Meiser	
2. F. O. Eakins	
3. Dr. E. D. Shumaker	

2nd ANNUAL 50 METER INDIVIDUAL

INVITATION MATCHES

Amateur Rod and Gun Club—

EXPRESS

1. F. Kenneth Van Houten	G. C.
2. L. F. Murtaugh	R. C.
3. W. P. Schweitzer	R. C.

LADIES

1. Mrs. Janet Champlin	ban Rifle
2. Mrs. F. Pauch	et F. & C.
3. Miss E. Deakins	an R. C.
4. Miss D. Gisinger	welt R. C.

AVERAGE CLASS

1. Kenneth Hankins	me R. C.
2. O. D. Hogue	ose Club
3. C. Monty	Amboy R

RE-ES

1. Major M. R. M. Gwilliam	ban Rifle
2. W. P. Schweitzer	me R. C.
3. E. Danielson	ry R. & I

TEAM CHAMPIONSHIP

1. Roslyn Rifle Team #2	
Murtaugh	198
Powell	195
Gawlowicz	195
Droesch	194
Piotrowsky	191
2. Roslyn Rifle Team #1	
3. Perth Amboy Rifle Team	

Remington

TAKE THE TIP OF THOSE WHO TAKE THE PRIZES... HO

Palma Match

Eric Johnson, winner of the Middle Atlantic Championship, Long Range Ind., Short Range Ind., Potomac Dewar Ind., Two-Man Team Short Range Championship, at the National Capital Small-Bore Tournament—all with Palma Match.

Palma Match. Every event but one a 100% clean-up for Palma Match!

At Dayton, Ohio, Palma Match swept the field. It did the

same at the Oregon State Shoot. And again at Newark, N. J., in the Second Annual 50-Meter Individual Invitation Shoot. It took every event at the Eighth Tri-State Match, Portsmouth, Ohio. The scores tell the story. We're pleased to print them. Remington Arms Company, Inc., Bridgeport, Conn.

5-AGGREGATE

2	Palma Match
2	Palma Match
1	Palma Match

50 METER IND. AND TEAM MATCHES

Club—Newark, N. J.

CLASS	Palma Match
G. C.	199
R. C.	198
R. C.	198

CLASS

han Rifle Team	197
et F. & G. P. A.	194
n R. C.	189
velt R. C.	186

AGE CLASS

ate R. C.	195+99
ame Club	195
Amboy R. C.	195

REES

han Rifle Team	300
re R. C.	297
ay R. & P. C.	295

W CONDITION

98	
95	
95	
94	
91	
93	All shot Palma Match
94	All shot Palma Match
93	All shot Palma Match

mlton

QU

SECOND ANNUAL SPRING SMALL-BORE CHAMPIONSHIP TOURNAMENT

Dayton, Ohio

PISTOL MATCHES .22 CAL SLOW FIRE

2. R. J. Dunbar	185	Kleanbore
-----------------	-----	-----------

OHIO CHAMPIONSHIP .22 CAL

1. D. E. Reeves, Jr.	279x300	Kleanbore
----------------------	---------	-----------

INTERNATIONAL MATCH

1. R. J. Dunbar	518	Kleanbore
2. Ralph Feld Edison	513	Kleanbore

RIFLE MATCHES

ANY SIGHT SHORT RANGE MATCH

F. O. Eakins	398	Palma Match
A. J. Yearsley	398	Palma Match
H. H. Jacobs	395	Palma Match

METALLIC SIGHT MATCH

A. J. Yearsley	398	Palma Match
Theo Folger	396	Palma Match
Glenn Mason	395	Palma Match

LONG RANGE MATCH (Any sights)

J. H. Winkley	191	Palma Match
H. H. Jacobs	190	Palma Match
E. Russell	188	Palma Match

FIFTY METER MATCH

A. J. Yearsley	392	Palma Match
J. H. Winkley	392	Palma Match
W. Rostron	390	Palma Match

THE NOVICE MATCH

M. W. Given	393	Palma Match
F. L. Spencer	393	Kleanbore
A. Reger	386	Palma Match

ANY SIGHT SHORT RANGE TWO-MAN TEAM MATCH

H. H. Jacobs	399	798	(Palma Match
Geo. Bonnell	399)		(Palma Match
A. J. Yearsley			
R. Gardner	788		Palma Match

OREGON STATE RIFLE ASSOCIATION SMALL-BORE MATCHES

Portland, Oregon

PALMA MATCH—150-175-200 YARDS

1. Glenn Stotts	222-27x	Palma Match
-----------------	---------	-------------

SWISS MATCH—200 YARDS C-5 TARGET

1. Henry Gilmore	13 consecutive 5's	Palma Match
------------------	--------------------	-------------

.22 WIMBLEDON MATCH—200 YARDS DECIMAL TARGET

1. Don Anderson	186	Palma Match
-----------------	-----	-------------

BUDDY MATCH (2 MAN TEAM) 200 YARDS DECIMAL TARGET

1. H. Atwood	96	
R. Meister	96-192	Palma Match

50 YARD INTERNATIONAL MATCH

1. Glenn Stotts	200	Palma Match
-----------------	-----	-------------

100 YARD INTERNATIONAL MATCH

1. J. H. Wolford	195	Palma Match
------------------	-----	-------------

ALL IRON SIGHTS 50 YARDS STANDARD TARGET

1. H. Atwood	100-7x	Palma Match
--------------	--------	-------------

SHORT RANGE BUDDY MATCH (2 MAN TEAM) 50 AND 100 YARDS

1. W. Burnham	197	
Don Anderson	199-396	Palma Match

100 YARDS STANDARD TARGET 20 SHOTS

1. Glenn Stotts	200-12x	Palma Match
-----------------	---------	-------------

INTERNATIONAL QUALIFICATION MATCH 50 AND 100 YARDS

1. Glenn Stotts	199-11x	Palma Match
-----------------	---------	-------------

SHORT RANGE BUDDY MATCH 50 AND 100 YDS. STANDARD TARGET

1. H. Atwood	197	
R. Meister	198-395-21x	Palma Match

ASSOCIATION MATCH 50 AND 100 YDS. STANDARD TARGET

1. Harold Greer	198-7x	Palma Match
-----------------	--------	-------------

50 YD. MATCH—20 SHOTS STANDARD TARGET

1. William Johnson	200-12x	
2. W. I. Sutherland	199-11x	Palma Match

Flash from California

Palma Match was king of firing line at Richmond this week-end, making clean sweep every event of five western state championships. L. C. Farnsworth, sharpshooting rancher of Arbuckle, won individual championship, scoring 586 under very difficult conditions. Henry Wright of Fresno won Iron Sight Dewar 395 and Swiss Match 19 hits. H. W. Allen of Fresno won Dewar Telescopic score 398, while John B. Adams won Wimbledon with 194 and off-hand kneeling match. Oakland Rifle Club won team events. It was a wonderful victory.

SHOOT THE WINNING AMMUNITION... PALMA MATCH

M. & P. and the .44 and .45 Military model. Also, the back of the S. & W. grip is comparatively thin, and this serves to accentuate the very appreciable recoil of the lighter models when the heavier loads are fired in them.

I find that the S. & W. grip adapters are a great improvement on my Model-1917 S. & W. revolver, because they distribute the shock of recoil over a greater portion of the hand. However, the S. & W. walnut stocks do not extend above the shoulder-cut in the frame, and the top of the frame where the curve meets the fork of the hand is left bare of wood. Here is where the Roper stocks give an appreciable advantage, because they extend higher, and broaden this extreme top of the grip, just at the point where the recoil-effect is most noticeable.

In order to show the difference in a concrete manner, I have measured my two Model-1917 S. & W. revolvers when fitted with: the regular S. & W. stocks, the S. & W. stocks and S. & W. grip adapter, and the Roper stocks without adapter. The three points of measurement chosen were at the top of the Roper grip, at the lowest point of the curve or hollow in the top of the metal frame, and at the shoulder in the S. & W. frame, which is at the top position of the S. & W. grip-adapter plate. The figures showing the thicknesses at these three points with the three different grips on the same gun, are given in the following table:

Model-1917 S. & W. Grip Diameter			
Stocks	Top	Hollow	Shoulder
Regular	.66 inch	.66 inch	.98 inch
Adapter	.66 inch	.66 inch	1.10 inch
Roper	1.03 inch	1.14 inch	1.20 inch

A new Model-1917 Smith & Wesson revolver altered to .45-Colt caliber and fitted with the Roper stocks is very pleasant to shoot with Winchester Staynless factory ammunition. The Roper grip permits a very high hold, and eliminates all need of a finger-rest, or block, behind the trigger guard. I found in shooting at 25 yards with this gun so equipped that I could equal my offhand scores with the .38 Special Target revolver.

The little .22-32 S. & W. revolver has always needed a better grip. This light, handy sidearm has recently been made available with a shorter and heavier barrel to improve its holding qualities, and many shooters can outshoot the heavier K-22 model with it. The Roper stock is just what this little gun needs to complete it. Other S. & W. revolvers and pistols which are particularly improved by Roper stocks are the new .357 Magnum, the Outdoorman, the K-22, and the Perfected Model and 1891 Model pistols.

For Colt Arms

The success of Roper stocks on Smith & Wesson arms encouraged Mr. Roper to

adapt the same general design to Colt arms, and this has recently been accomplished. The Colt models that are benefited most by the new stocks are the Official Police, the Officers' Model, Camp Perry (old and new), and the New Service. These Colt Roper stocks have a modified filler-block for the curve behind the trigger guard, which leaves ample room for broad hands and yet serves well its intended purpose of taking the weight of the gun off the trigger finger. The wood is extended at the top of the frame to broaden the grip at this point and give a helpful sense of security to the shooter.

There are thin and thick grip models of the same general shape, to suit different hands. We tried the thick model on Bill Diers' Officers' Model, and it proved to greatly modify the recoil-effect of the heaviest modern loads. While it suited Bill's hand, however, it was found to be too thick for the hands of most other shooters. The thinner model was tried on the old Camp Perry Colt with 10-inch barrel, and the Roper stocks so improved the grip of that gun that I could outshoot my favorite target pistol with this unpopular old model. The Roper grip clearly makes this old 10-inch Camp Perry Colt the equal of the new 8-inch improved model. Every one of some two-score shooters who handled it approved of the design, most of them enthusiastically. Jim Howe offered the only criticism, which was a suggestion to omit the sharp checkering high on the grip under the thumb; and this suggestion will be followed in subsequent manufacture.

The several accompanying cuts will give a more accurate idea of these various Roper stocks than any description I could write. However, I took some measurements with calipers which may prove helpful in choosing between the thick model and the thinner one. The latter will suit most hands almost perfectly. Depth from filler-curve back of guard to bottom of stock on both models was 2 1/4".

Thickness (side to side)			
Location	Thick Model	Thin Model	
Bottom	1-1/2 inches	1-7/16 inches	
Screw	1-7/16 "	1-1/4 "	
Shoulder	1-3/16 "	1-1/16 "	
Top	7/16 "	1-1/8 "	

Depth (front to back)			
Location	Thick Model	Thin Model	
Base	2-3/16 inches	2-1/8 inches	
Screw	1-5/8 "	1-3/4 "	
Shoulder	1-1/2 "	1-1/2 "	

Perhaps it is a sanguinary prediction, but I believe that once their advantages become generally known, these correctly designed and beautifully made Roper revolver stocks will displace a host of grip gadgets and grotesque special stocks, and perhaps eventually even standard factory stocks.

REST-SHOOTING

(Continued from page 12)

seen, therefore, that no little detail escaped careful attention.

The rifle, with scope and mounts, weighs twelve pounds.

The cases used for the .22 Magnum are hand-drawn by Mr. Niedner from Remington .25-35 rimmed cases. While they are still in the die the necks are reamed out carefully to insure the same thickness of metal all around, which is necessary in this special chamber. It also serves to center the bullet truly in the bore. I have no way of knowing how long these cases will last, for I have not yet had to discard any of them.

I am ready to believe that the fine accuracy shown with this remarkable cartridge is due entirely to the design of the case, together with the carefully made 55-grain round-nose bullets as furnished me by R. B. Sisk, of Iowa Park, Texas. After all, it is the bullet that makes the group. Mr. Sisk has a method of checking his cores for weight. I have checked up on his fine bullets with a powerful glass, a sensitive balance, micrometers, etc., and find that for uniformity and all-around excellence they are superior to any other .22-caliber bullets I have ever used. In a recent letter Mr. Sisk states that if there is a sufficient demand, he will place upon the market a .25-caliber bullet for the .25-20 Super-Speed loads.

For the benefit of the shooters who are demanding sharper-pointed bullets from Mr. Sisk, I will say that after having tried out every possible shape, including even the true pencil-point bullet, I have found the round-pointed bullet as now furnished by Mr. Sisk to be far the most accurate. Furthermore, with this shape of point the 45, 55, and 63-grain bullets will all properly fit the same throat in the barrel. I call to the attention of these same shooters what are without doubt the most accurate and carefully made factory bullets ever produced: the .25 Roberts as made by Remington. These bullets all have a rather full round nose, which enables the 87, 100, and 117-grain weights to fit the chamber throat equally well, and so make for fine accuracy.

In a succeeding article I shall explain the methods I use in preparing ammunition for the .22 Magnum, and also the best type of bench rest for rest-shooting. After I have explained the reasons for the particular equipment necessary for fine rest-shooting, including the special targets used, together with many other important details, I shall show how the actual shooting is performed.

THE AMERICAN RIFLEMAN

New Cash Prizes—Special Fares for Camp Perry Matches

An entirely new system of awarding cash prizes is to be placed in effect in the National Rifle Association Matches at Camp Perry this year. There are three important features of the new system:

First, all cash prizes are guaranteed and competitors will know at the time of making their entries exactly what cash prizes are to be awarded from top to bottom of the prize list.

Second, medal winners will receive a definite prize, regardless of whether they are members of the Regular Service, National Guard or Civilian Teams. In the Wimbledon and President's Matches the winner will receive one hundred dollars, in the Leech, Navy, Marine Corps and Coast Guard Matches the winner will receive sixty dollars, and in the single stage matches, fifty dollars.

Third, the amount of cash awarded in each match to the Regulars, National Guardsmen and Civilians will be in proportion to the number of entries normally received from each of these three divisions. The number of cash prizes awarded will also be in proportion to the number of entries in each class.

It is believed that this plan will overcome the objections which have arisen from time to time in connection with other plans which have been used for the payment of cash prizes at the National Matches. It is also believed that the plan will add interest to the competitions by advising all competitors in advance as to the exact prizes for which they are competing.

Another interesting feature of the new plan is the provision in Civilian Interclub Matches both with the .30 caliber and the small bore rifle for the payment of cash prizes to teams composed of club members who are competing for the first time in the National Matches.

The plan also provides for the payment of definite cash awards to the highest National Guard Team and the highest Civilian Team in those events which permit participation by teams from the Regular Service, the National Guard and Civilians.

Individuals who for any reason such as possible jeopardy of their amateur standing in other sports do not wish to compete for cash prizes will be permitted to sign a statement to that effect at the N. R. A. Entry Office which will be accepted as a declaration of amateur standing by the National Rifle Association and so certified

to their sports governing bodies who may at any future time make inquiries on this point.

Special Railway Rates Approved

Another source of information of particular interest to shooters who plan to make the trip to Perry by train is the recent approval by the Passenger Associations of our request for special round trip rates to Camp Perry and return for members of the N. R. A. The rate is fare-and-one-third for the round trip. Any member of the Association and dependent members of his family can take advantage of this

GUARDSMEN CANNOT COACH CIVILIAN TEAMS

IN the June issue on page 30 we printed an article captioned "National Matches—General Information," the third paragraph of which read as follows:

"Size of Civilian Teams—Civilian Teams will consist of a Team Captain, ten firing members, and two alternates. Total team membership, thirteen. One of the alternates may be selected from the *National Guard or Officers Reserve Corps* to act as Team Coach, but will not be eligible to fire as a member of the team in team competitions."

In the above sentence *the portion set in italics is erroneous*. Members of the National Guard may not be selected to act in any capacity on any civilian team attending the National Matches. One of the alternates (on civilian teams) may be a Reserve Officer, however.

special rate. Certificates certifying that members are entitled to the rates are furnished by the N. R. A. and will be sent to any member requesting the form. *One of these certificates must be presented to your local ticket agent when purchasing the ticket to Camp Perry.*

Requests for certificates should be made in writing to the National Rifle Association, 816 Barr Building, Washington, D. C. Members should state their status (whether endowment, life, conditional life, annual, honorary or junior members). Annual members should give the expiration date as stamped on their cards.

Non-members who desire to travel to Camp Perry and return at the special fare and one-third rate may make application for membership, using the application blank on page 4 and ask for the certificate when mailing the application.

CAMP PERRY TO HAVE KIWANIS CLUB

KIWANIS International has given authority to organize a temporary Kiwanis Club during the rifle matches at Camp Perry. All Kiwanians are requested to communicate at once with Frank J. Schneller, National Marksmanship Director of the American Legion, Neenah, Wisconsin, in order that full arrangements may be made. Full cooperation of International Kiwanis with the National Matches is appreciated and the Kiwanian riflemen are anxious to respond with worth-while publicity and good will. The Camp Perry meetings will probably be held in the evening on Tuesday of each of the three weeks at camp. Frank Schneller will appreciate early advice of all who are contemplating attending.

HOW ANTI-FIREARMS LAWS WORK

N. R. A. members tell by letter how the Sullivan Type Law deprives honest citizens of the right to own and possess firearms.

Brooklyn, N. Y.

"The New York Police Department refused to renew my pistol permit for the year 1935. As a result I was compelled to forfeit my firearms without being reimbursed in any way.

"In disapproving my application for the renewal of the permit, the excuse given me by the captain of the police precinct in which I reside was pretty vague (something about a privilege extended to rifle and pistol clubs as a courtesy, which was being discontinued). This I have found is not so, for I know quite a few members of various pistol and gun organizations in both Brooklyn and New York, who have both their guns and permits."

Dorchester, Mass.

"I applied for a permit to buy a gun and a permit to carry a gun to and from the target range, May 1, 1935. I made out an application for a license at station Sergeant was in charge of the gun permits. In about two weeks I got a letter from the Office of the Police Commissioner saying that my permit for a license had been considered and rejected by the Police Commissioner. The gun I have in mind to buy is a Colt Officer's Model 38. That is the only reason the police gave for refusing me a permit."

New York City, N. Y.

"I am a member of the Rifle and Revolver Club.

"I filed an application for a pistol permit to carry a gun to and from the range. It was disapproved by the precinct captain. I then wrote to Second Deputy Commissioner Vincent J. Sweeney for a hearing on the disapproval. I was given a hearing but I was again turned down. I was born and raised in the neighborhood that I am living in. I was never arrested, summoned, or in any kind of trouble.

"Can you kindly advise me what to do in order that I may get my pistol permit?"

Three Important Shoots This Month

Eastern Small-Bore Tournament

July 3-7—Those are the dates of the Eastern Small Bore and Pistol Matches, first of three big Shooting Tournaments scheduled for July. Arrangements have been made to accommodate four hundred Shooters, and no detail has been left undone in the way of making this meet the annual "Mecca of Small Bore Shooters."

For twelve years the Annual Championships had been held at Sea Girt, since their inception in July, 1922. The Sea Girt range not being available in 1934, it became necessary to find a new home. With the close cooperation and whole-hearted support of Brigadier General M. A. Reckord, Adjutant General in command of the Maryland National Guard, and the National Rifle Association, Camp Ritchie, near Cascade, Maryland, and Blue Ridge Summit, Pennsylvania, became available and will probably, also, become the permanent home of the Eastern Small Bore Rifle Association Annual Championships. It may be due to the fact that Camp Ritchie is more centrally located and it may be due to the fact that curiosity and expectation, which springs eternal in the human breast, impelled the largest number of shooters that ever attended these matches to come to Camp Ritchie. Be that as it may, Camp Ritchie is the ideal home for these matches as everyone who was there in 1934 will testify.

A fine Club House lies at the foot of a lovely lake. There is excellent bathing and boating. The Club House will accommodate about forty persons and the rates are very reasonable. There are sufficient buildings and tentage to house all competitors comfortably. No charges are made other than the regular registration fee for each person who will live in camp and the amount is \$1.00. Cots, blankets and mattresses will be issued to all competitors and persons registered, without charge. There will also be a squaw camp.

Erected on the shores of the lake by the Club House will be tents this year to take care of the over-flow. A charge of \$1.00 per day per cot will be made and this includes, of course, all linen, blankets, etc. This charge of \$1.00 per day will apply to any tent with two bunks in it and an additional charge of \$0.25 per day for additional bunks in any one tent.

Those who plan to live at the Club should make reservations immediately to Mrs. Mabel McComas, Hostess, Club House, Camp Ritchie, Cascade, Maryland.

Indiana (Pa.) Tournament

Secretary Alan B. Salkeld of the Indiana (Pa.) Rifle Club reports everything in readiness for the big state-wide small-bore shoot to be held on the club's spacious rifle range at Hamilton Field in Indiana, Pa., on Friday and Saturday, July 12 and 13. The Indiana Tournament is expected to attract the largest entry of any meet ever held in Pennsylvania.

The range is situated on the Hamilton Field Airport, which is located on Route 422 only 2.3 miles east of Indiana. There is space on the grounds for one thousand automobiles to park and the parking of the cars will be well taken care of by the State Motor Patrol. The firing line will accommodate fifty shooters at each range, and arrangements have been made for plenty of help to take care of the target work and other duties so that the matches will run off without any loss of time. Guaranteed cash prizes totaling \$170.00 will be paid, in addition to percentage cash prizes based on total entries in each match. Merchandise prizes valued at \$140.00 will also be awarded in the various events.

As at Camp Perry, there will be a real Commercial Row where the many gadgets, supplies, firearms and ammunition may be seen and bought. The following firms have reserved space during the events: Winchester, Remington, P. J. O'Hare, Westchester Trading Post, John Unertl, scope manufacturer, J. P. McConnell, gunsmith, and Watson Gun Sight Company of Canada.

The Indiana Club, through genial Secretary Salkeld extends to all shooters who can possibly "make it," a cordial invitation to attend this hospitable two-day meet. He says, "The Indiana Tournament offers the same type of matches that will be shot at Perry under conditions very similar to those prevailing at the big National Small-Bore Meet. Rooms at nominal cost may be had at the many places advertised in the program."

"In the first event on Friday morning we offer as first prize an Unertl Rifle Scope, or, if the winner has a scope, he or she may take a free trip to Camp Perry and return at the expense of the Indiana Rifle Club. We offer a medal to the best Tyro Rifleman, prizes to the ladies, and many more awards as mentioned in the Official Program. Incidentally, additional prizes have been contributed since the program was printed, and these will be posted on the Bulletin Board at the matches."

Zeppelin (Akron) Rifle Tournament

Two weeks following the Indiana Shoot, namely on July 26 and 27, the Zeppelin Club of Akron will stage its second annual small-bore tournament. This is another shoot which promises to be well attended and offers guaranteed cash prizes, in addition to the famous Litchfield Trophy and other worth-while awards.

Public Relations Director, Clyde Schetter, of the Goodyear Company, sends us the following story covering highlights of the program. He writes as follows:

"In making plans for its official program, the Zeppelin Club decided that too often similar programs are cluttered up with too much advertising and extraneous matter not connected directly with the details of the shoot in question. It, therefore, was decided to issue the 1935 program on a strictly noncommercial, non-advertising basis and the full 24-pages of the booklet are devoted exclusively to information and pictures on the tournament.

"The program schedule was arranged under the direction of A. B. Pettit, who for four years was president of the club, and deserves much credit for high standards of small arms achievement which have been recorded by the club. The National Rifle Association will send staff men from Washington to help conduct the matches.

"The program reveals the following schedule of events: Zeppelin Open Small Bore Championship; Dewar Individual Match; 50-meter Individual Match; 50-meter Two-man Team Match; American Legion Match; International Small Bore Match (England vs. United States); Zeppelin Individual Match (50, 100 and 200 yards); Ohio-Michigan Team Tryout; Long Range Individual Match; Women's Match; Club Team Match; International Legion Team Match and International Dewar Team Match (United States vs. Canada).

"The Zeppelin Rifle Club is an employees' activity of the Goodyear Tire & Rubber Co. and has 553 active members. President of the club is Gus Ricketson. The Zeppelin No. 3 Range where the annual tournament will be held, is one of the finest in the middle west with accommodations on the firing line for 60 riflemen. Conditions very nearly approximate those at Camp Perry and there are ample parking facilities for 300 cars.

"Registrations and entries for all matches may be made at the range during the matches, but any who desire may make postal arrangements to participate, or get any additional information desired by addressing Clyde E. Schetter, c/o Goodyear Tire & Rubber Co., Akron, O."

Chicago's Sport Show Shoot

By SHERWIN MURPHY

THE second annual rifle and pistol competitions, held in connection with Chicago's Boat and Sport Show, were fired at Navy Pier from May 5 to 12. Favorable weather, necessary for the success of even an indoor shoot, helped to swell the attendance. Chicagoland riflemen and handgun devotees turned out in large numbers and kept the range busy at all hours.

As in 1934, a splendid 75-foot range was provided by the genial "Hub" Erickson, manager of the show, who, though not a shooter himself, left nothing undone to provide for the comfort and convenience of the marksmen. Five firing points, complete with target carriers, were provided at the east end of the big exposition. In spite of the physical limitations of the range, entries in the various events for the week were in excess of six hundred and fifty.

The range was most attractive. Both sides were lined with neat green and white partitions such as were used for the backwalls of the regular display booths. Sunlight flooding from both sides through the glass walls of the pier made artificial lighting almost unnecessary during the afternoon sessions. Range facilities were available every day from one o'clock until closing time at eleven.

Hard-boiled shooters, accustomed to indoor ranges tucked away in remote basements, far from the ken of men, were at first "fussed" by the crowd which continually thronged in and out of the space reserved for spectators. Here the fraternity had the center of the stage—out where the public could see what was going on. And, certainly, the visitors took full advantage of the opportunity to get acquainted with shooting at its best. At times they were massed deep behind the firing points—especially during the eve-

ning hours. The firing was a sound magnet that drew the day-dreaming sportsmen of many persuasions down to the end to see what those noisy marksmen were up to.

The *Chicago Daily News* was again the sponsor for the range. Salty Bell, nationally known yachting, billiard and bridge editor of the *News*, was the publicity impresario and personally reported the day-by-day happenings and results. No effort was spared to make the program a big success. Seldom does rifle and pistol shooting receive such wholehearted support from a large metropolitan newspaper.

Though set up primarily for shooting, the range attracted many old-timers who had either given up active participation or who are temporarily inactive. Many well-known shots of past years "checked in" to talk of the days away back when. One such visitor was Mr. I. Halvorson of Chicago, now in his late seventies, who shot with the Norwegian Rifle Club (now extinct, I believe) more than twenty-five years ago. Maybe the Schuetzen crowd may remember Mr. Halvorson and the Norwegian Club.

The Illinois State Rifle Association, co-operating with the *Chicago Daily News* and the Sports Show management, assumed direction of the match program under the leadership of President Morrison Worthington. The officers, aided by individual members, acted as range officers, assistants and scorers. Edmund Gschwind, small bore executive officer of the I. S. R. A., was in charge of the entries and the firing line.

Sunday, the opening day, was given over entirely to firing for N. R. A. qualification medals. The regular match program opened the next day and continued through the following Sunday. Scores are omitted here due to lack of space.

Brattleboro Holds Sport Show

ON APRIL 26th and 27th the Brattleboro National Guard Armory was a very busy place when the Brattleboro Rifle Club put on its first Sportsman's Show.

Rifle matches were featured. Fourteen teams competed in the tournament to determine the winner of the cup emblematic of indoor championship of southern Vermont. The course of fire was 10 shots prone, 10 standing, iron sights, at 50 feet. N. R. A. rules governed.

Squadding tickets were issued to team captains at the time team entries were made and scores were posted immediately after each relay came off the line. Mr. Jacobs, the range officer, was compli-

mented by many for the smooth efficiency with which he handled these matches.

Brattleboro senior team, composed of Carley, Barnard, Whitney, Dawley, Hadlock and Haskell, won the cup with a score of 889. Charley Lyman entered a team of six women from Middlefield, Conn. Little Anna Warner of this team showed the boys how shooting should be done by scoring high individual both evenings and the afternoon of the show. Her highest score was 186, outranking Carley of Brattleboro by a higher score in the standing position.

Charley Lyman (sights) and Cliff Franklin from Winchester, were kept busy

answering questions from the many interested visitors. The show was considered a great success and will be repeated next year.—A. A. HASKELL.

ARIZONA PISTOL MATCHES

GEORGE JACOBSEN of Phoenix won the Arizona state individual pistol championship by shooting a score of 266 out of a possible 300 in the feature match of the Arizona State Championships sponsored by the Pistol and Revolver Association, and staged at the new Casa Grande pistol range. Mrs. R. E. Dean of Phoenix, won the women's .38 caliber championship and Mrs. Mary Bledsoe of Phoenix, the women's .22 caliber championship.

Members of the Casa Grande pistol club, host organization, were enthusiastic over the success of the state meet. More than 60 marksmen from all parts of the state took part in the various events with a total of 147 entries being received. Visiting marksmen paid high praise to Casa Grande's new range, largest in the Southwest, which underwent its first real baptism of fire.

The highest score shot during the meet was that of Paul Roberts, representative of the Western Cartridge company, who made 272 in the championship match, but he was awarded no place as he was ineligible for prizes.

The two qualification matches attracted a total of 104 entries.

As a result of winning the individual championship, Mr. Jacobsen won the trophy offered by the Valley Bank. Harry Renshaw of Nogales who finished second earned the Porter trophy. Many other beautiful prizes were given to the various contestants.—(From the Casa Grande *Dispatch*).

MEISER SETS RECORD

RESULTS of the Eighth Small Bore Rifle Tournament held at Portsmouth, Ohio, on May 30, indicate that the match was won by H. W. Meiser of Marietta, with a new record score of 492. Scores are based on aggregate of Dewar Course plus 10 shots at 200 yards or 500 possible. Previous record of 490 was made by E. A. Holcomb of Portsmouth in 1934.

Joseph J. Doran

JOSEPH J. DORAN, for many years a member of the National Rifle Association, President as well as one of the founders of the Beechwood Gun Club, Inc., of New York, passed away on May 17, 1935.

Mr. Doran in crossing the street on May 1, 1935, was hit by a taxicab and suffered a fractured skull. He had always worked ceaselessly and unselfishly in the interests of the Club, and it is with profoundest sorrow that we announce his demise.—EDWARD VON HELLINGEN.

Texas Big-Bore Matches

WHAT was conceded to be the best attended and most successful big bore rifle meet ever sponsored by the Texas Rifle Association was held on the U. S. Army target range in Laredo May 23 to 26. Feature annual events of the Texas Rifle Association, including the championship match, the governor's match, the Austin Kiwanis match and the Dr. Goodall Wooten trophy match brought the four-day program to a successful close on Sunday evening, May 26th, at 6 p. m.

As a result of the matches, four Laredo rifleshooters, W. B. Hopkins, J. W. Leflar, H. P. Brady and W. O. Moore, were selected members of the twelve civilians who will represent Texas at the national rifle shoot at Camp Perry. C. F. McCabbin, Dallas, was named Captain of the team.

The state championship match, with 60 participating, was won by George Corning of El Paso with a score of 329. Corporal S. D. Holton of the 23rd Infantry made second highest score with 327, while Sergeant C. R. Umberger of the 23rd Infantry made third highest score with 326.

In the Austin Kiwanis Trophy match at 200 yards, 10 rapid fire shots sitting or kneeling from standing and 10 shots at 300 yards rapid fire prone from standing, Corporal S. D. Holton of 23rd Infantry won first place with 97, Corporal F. M. Conklin of Ninth Infantry won second place with 96, and W. B. Hopkins of Laredo won third place with 96.

In the Governor's match, ten shots at 200 yards standing and 10 shots at 600 yards prone, Sergeant L. W. Fish of Ninth Infantry was first with 95, Corporal S. D. Holton of 23rd Infantry was second with 92 and Sergeant M. W. Link of Ninth Infantry was third with 92.

In the Dr. Goodall Wooten match—four men teams ten shots standing at 200 yards and 10 shots rapid fire at 300 yards

prone from standing, and 10 shots at 600 yards prone, the 23rd Infantry team won with a score of 542, second and third places were won by two Ninth Infantry teams with scores of 535 and 536.

In the two-man team match, at the same ranges, first place was taken by Captain R. O. Bassett and Sergeant C. R. Umberger of the 23rd Infantry with 272, and each were awarded silver medals, while Sergeant R. G. McCann and Corporal F. M. Conklin of the Ninth Infantry won bronze medals with their score of 272.

In the Cooper Aggregate Match No. 16 with total scores made in matches Nos. 2, 3, 8, 11, Sergeant L. W. Fish of Ninth Infantry won the trophy and silver medal with a score of 384. Second place went to Corporal S. D. Holton of 23rd Infantry with a score of 381, while Gene Farren of Houston won third place with his score of 380.

Match No. 17, rapid fire aggregate, with total scores in Matches Nos. 8 and 12 at 200, 300 and 500 yards, Corporal S. D. Holton of 23rd Infantry was first with 243, Corporal W. H. Gothard of 23rd Infantry was second with 241 and Corporal O. L. Lowe of Ninth Infantry was third with 239.

Match No. 18, El Paso Trophy Match, an aggregate with total scores made in Matches 4, 6, 7, and 11. Gene Farren of Houston was first with 291. George Corning of El Paso was second with 289 and Sergeant A. Runge of Ninth Infantry was third with 288. Farren won the trophy and silver medal for one year, while medals were also won by Corning and Runge.

All the visiting participants in the four-day shoot were unanimous in the declaration that the big-bore shoot held in Laredo was one of the largest and best in the history of the Texas Rifle Association and that the competition here was as keen as found anywhere.—(The Laredo Times.)

this promising rifle and pistol meet. Programs may be obtained by writing to O. H. Schwanger, Secretary, Middletown, Pa.

KANSAS WINS AGAIN

IN THE April RIFLEMAN there appeared a short article, written by the undersigned, depicting an epochal event, a battle of the giants, in which ten hand-picked Kansans administered a sound trouncing to ten of the best Oklahoma had to offer. At that time, the writer, flushed with victory and in his youthful innocence, brazenly challenged the world to a similar match for "money, marbles or chalk."

Now it seems there resides in the fair state of Connecticut a gentleman, known to his cohorts as Eric the Swede (Johnson to you), who at one time dwelt in the wilds of Oklahoma. After casting his eye on the article in question, Mr. Johnson prevailed upon Hughes Richardson, President of the Connecticut State Rifle and Revolver Association, to take up the gauntlet so bombastically hurled down by the conquerors of Oklahoma; the result was a postal rifle match arranged between the same ten Kansans and the ten best marksmen of Connecticut.

Conditions called for ten shots in each of the four positions, any sights, all ten scores to count. As soon as marked targets could be exchanged the match was fired and lo! and behold! once again the old Kansas Jayhawk emerged victorious. Final scores were: Kansas 3798, Connecticut 3786. Various alibis have been offered for these poor scores, and we will admit they are poor, BUT, there they are, and if you birds think we are going to hurl another challenge to the world you are mistaken; of course, we might be coaxed. We think it might not be amiss to give the names and scores of the riflemen engaged in this titanic struggle: For Kansas: Lawson, 385; Reed, 385; Sherrod, 384; Coulter, 383; Stants, 381; Ponte, 381; Gordon, 380; Whitmore, 376; Warring, 375; Smith, 368. Total, 3798. For Connecticut: Johnson, 385; Hunt, 384; Lacy, 383; Naramore, 381; Schultz, 378; Smith, 378; Doyle, 378; Hoza, 376; Breuler, 375; Gadd, 368. Total, 3786.—By CHARLES H. SHERROD, Secretary, Sedan (Kans.) Gun Club.

A TIMELY SUGGESTION

HERE is a good suggestion on relining gun racks, which is passed along through courtesy of Clarence R. Hight of Dalton City, Illinois. He says: "There is nothing better for lining the crotches of a gun rack than those self-sticking strips of sponge rubber sold by the big mail order houses for stopping rattles in doors of cars. This stuff will positively prevent marring of gun stocks, and the price is only 19 cents for ten feet."

Coming—Eastern Pennsylvania Rifle-Pistol Shoot

AT THE monthly June meeting of the Elizabethtown Rifle Club of Middletown, Pa., final arrangements were completed for the staging of the largest Rifle and Pistol Tournament ever staged in Eastern Pennsylvania.

The Officers of the local club will be assisted by Officers of the 213th Coast Artillery A. A. Tents and other equipment will be loaned through the courtesy of the Pennsylvania National Guard. The National Rifle Association will send a representative who will be assisted by a staff of trained range officers and field men in running off the two-day program

which will be held on August 10 and 11.

The entire outdoor range of the local club has been renovated, disappearing targets have been installed on the 200-yard range. Double target racks have been installed at 50 and 100 yards. An entire new pistol range has been installed with accommodations at 25 and 50 yards and firing on all ranges can be carried on simultaneously, as nothing has been overlooked by way of safety and convenience in handling matches.

The Elizabethtown Rifle Club extends a cordial invitation to shooters in Pennsylvania and neighboring states to attend

Missouri State Matches

By E. E. DITTBRENNER

WITH a somewhat better break in the weather than we usually get in May, the ninth annual Matches went over this year as though the depression were about over. Not that we didn't have rain, but they were showers of short duration. Having been badly rained on in four out of eight previous matches we had provided tarpaulins over the firing points, twelve feet wide and 120 feet long. Maybe you don't think that is some tarp! When you stop to think that May ended with only four days on which it did not rain, it would seem that we have something to be thankful for.

Not many records were broken, but several were equalled. There was a great deal of new blood showed up, both from without and from within the state; this is especially encouraging after a number of lean years. While our attendance records will not compare with one previous year, those competitors that did come entered more matches and spent more money than at any previous year's shoot. The predominant increase was principally in the heavy caliber and small-bore rifles, the increase in the latter being phenomenal, crowding the facilities of a twenty target traversing trolley range for two long days, using up all time and space available. The official count of competitors is 222, these not including any officials, but possibly a few extras who registered for the annual banquet. Officials and personnel required totals 82, most of whom were paid since there are no troops stationed in this vicinity other than a small National Guard unit which, however, was almost 100 per cent on the ground as personnel with its signal equipment.

Of course there were upsets; there almost always are. Outstanding among them was a Kansas City policeman arriving off with individual honors in the pistol

matches, always heretofore won by some member of the St. Louis police organization, and the winning, on sheer merit, of the small-bore Wimbledon by Mrs. Hilda Eidmann of Belleville, Illinois. There was a four-way tie of 294 x 300; her score was highest at the longest range. The other three with the same score were the three most outstanding small-bore shots in the state. Speaking of ladies' shooting, Cleveland High School of St. Louis put in a girls' .30 caliber team, shooting the service rifle and ammunition, in the Civilian Team Match. It is true that out of six teams entered in the match, they were sixth, but it is also true that the score they fired would in years past have been mighty close to the top if not at the top. As it was, they were only 13 points below the Cleveland boys. The Glendale Shooting Club, back in .30 caliber competition again, won the match with an all-time high of 560 x 600.

After many years' promises, C. B. Lister finally *did* come out to see how we worked things. We gave him an opportunity to talk to the competitors at our annual banquet at which covers were laid (and used) for 217.

So far as can be determined from roundabout comments, everything went quite satisfactorily for the competitors (if it doesn't they will always tell you). Credit for this is due primarily to the Executive Officer, Col. L. M. Rumsey, Jr., and the assisting range officers, Captain Ralph C. Wilson, father of the small-bore game in the Association, Lt. Nick Bosch, Jr., in charge of the pistol range, and Major D. J. Colyer, in charge of the heavy caliber rifle range; Lt. Robert Gwinner, pit officer, and Capt. H. W. Holliday, Statistical Officer, and C. O. of the local National Guard unit, which did the principal recruiting of the personnel for the matches.

The Ohio Pistol Matches

THE Ohio Championship Pistol Matches were held at Dayton, Ohio, May 25 and 26 for the third consecutive year. There were 46 registered competitors, and no one made a runaway with top honors, seven different marksmen sharing eight first places. The following is an abbreviation of the results of the matches:

22 Slow Fire Match, 20 shots at 50 yds.—First, Ray Bracken, 189; second, R. J. Dunbar, 185; third, Stanley Thomas, 180.

Novice Match, any pistol or revolver, 20 shots at 50 yds.—First, W. H. Lux, 184; second, J. W. Savage, 176; third, Fred Doege, Jr., 173.

.32 Caliber and larger, 20 shots at 50

yds.—First, J. B. Reed, 182; second, Ray Bracken, 174; third, J. F. Lamping, 171.

Ohio Championship .22 Caliber, 10 shots slow fire at 50 yds., 10 shots timed fire at 25 yds., and 10 shots rapid fire at 25 yds.—First, D. E. Reeves, Jr., 279; second, J. Durbrow, 273; third, W. H. Lux, 270.

Ohio Championship, any .38 caliber or larger (same course as above)—First, Ray Bracken, 274; second, J. Durbrow, 271; third, D. E. Reeves, Jr., 268.

Team, four-man, 20 shots slow fire at 50 yds.—Columbus Rifle and Revolver Club, 708; Cincinnati Revolver Club, 695; Dayton Industrial No. 2, 684.

International Match, 60 shots at 50 meters—First, R. J. Dunbar, 518; second, Ralph Feld, 513; third, Ray Bracken, 511.

FIRST VIRGINIA STATE RIFLE TOURNAMENT

Dr. S. S. Snuffer and R. D. Harman, president and executive officer of the Montgomery County Rifle Club, staged a close battle for top honors in the first annual Virginia State Championship Matches held at Christiansburg, Va., June 14 and 15. Doctor Snuffer finally won the Virginia Small-Bore Rifle Championship with Mr. Harman taking the small arms title.

In conjunction with the matches a meeting was held to set the groundwork for organizing a Virginia state rifle association to run future state tournaments and conduct other rifle activities in the state. A tentative set of by-laws was drawn up, subject to the approval of the majority of organized clubs in Virginia.

The winners of the matches were as follows: 50 yards, prone, Dr. S. S. Snuffer, 197 x 200; 50 yards, standing, R. D. Wright, Christiansburg, 157 x 200; 50 yards, four positions, D. M. Barnett, Christiansburg, 368 x 400; Dewar course, H. J. E. Reid, Hampton, 392 x 400; 100 yards, standing, R. D. Harman, 165 x 200; 100 yards, four positions, D. M. Barnett, 359 x 400; .22-caliber pistol, R. D. Harman, 259 x 300; .38 and larger caliber, Claude Sumpter, Bristol, 242 x 300; police pistol, L. J. Pyle, Bristol, 229 x 300; and high-power rifle, 100 yards, R. D. Harman.

ANNUAL POLICE SHOOT AT TEANECK (N. J.) NEXT MONTH

STATE and municipal police officers from states and cities throughout the East will assemble at Teaneck, N. J., on August 17 to compete in the Police Championship Pistol Matches, annually fired over the Teaneck police range.

The all-day shooting program includes individual and team events to be fired with the police service revolver, as well as other matches calling for the .45 Automatic pistol. Prizes valued at more than \$2,000.00 will be awarded.

The Teaneck Meet provides an excellent opportunity for Eastern police teams to get some splendid competition experience prior to going to Camp Perry. The matches will be fired under conditions similar to those prevailing at the National (Camp Perry) Police Championships and the experience gained at Teaneck should be of real value to officers who expect to shoot at Perry two weeks following the big Jersey get-together. Sgt. Theodore Morgan of the Teaneck (N. J.) police will gladly send programs to anyone requesting them.

CLUB NOTES

The Feature Championship event of the Poughkeepsie (N. Y.) Rifle Club Small-Bore Tournament, held May 18-19, was won by C. C. Held, Allentown (Pa.), who also captured the Grand Aggregate prize. More than a hundred riflemen, numbering many of the best-known small-bore shots of the east, attended this annual two-day meet, sponsored by the hospitable Poughkeepsie Club.

Pelican Rifle Club of Louisiana, Inc., won its tenth straight match on May 19. This tenth match was a Dewar-Course event with the New Orleans Rifle Club. It was the first match in four years that the New Orleans Rifle Club has lost over this course.

The Southern Minnesota Rifle League held their second annual small-bore tournament at Wanamingo (Minn.) on May 26. Secretary S. E. Abbott reports that despite inclement weather 62 shooters were present. W. E. Kenyon of Clear Lake, Iowa, won the Loving Cup on his high aggregate score.

The Connecticut State Rifle and Revolver Association big-bore matches, held on State Rifle Range at East Haven, Conn., May 26, attracted more than 100 shooters from Connecticut and nearby states. The program included one team and two individual events. Middlefield (Conn.) Rifle Club topped the field of 16 teams competing in the Stewart team match, while A. Friel, Kingston (R. I.) college student, nosed out a trio of nutmeg state old-timers to win the Stewart Individual. J. R. Nielson of Hartford placed first in the Richardson Match—final event of the day.

An N. R. A.-Sanctioned Match sponsored by Greeley (Colo.) Rifle Club, and held on May 26, was attended by 56 small-bore marksmen, including seven 5-man teams. Feature event of the day was a Dewar Course Individual Match, won by W. W. Michaelis, a local shooter, who dropped only one point over the 40-shot course. Irvin P. Birchell of Denver won the Grand Aggregate on his consistently good scores in all three matches. Other winners included C. P. Howard, Denver, who finished first in the Free-Rifle event, R. G. Silvey, Greeley, winner of the Rapid-Fire Match, and Greeley R. C., whose No. 1 team outranked Cheyenne U. P. Club to cop the Dewar Course Team Match.

Frankford Arsenal (Pa.) Pistol Team defeated Wilmington (Del.) R. & P. Club 1290 to 1252 in a recent slow-fire pistol match, fired on the latter's Woodlake Quarry range.

The Belle City (Racine, Wis.) Rifle Club won a four-cornered Dewar Team Match with a score of 1962 to top Milwaukee R. C.'s 1938, Badger R. C.'s 1917, and Burlington's 1912. The match was fired on Sunday, June 3rd, at the Belle City range. The Belle City team holds the Wisconsin State Championship for 1933 and 1934.

The Ordnance Rifle and Pistol Club, Inc., of New York, held its first annual meeting and dinner at Busto's Restaurant in New York City. Twenty-five members attended. Maj. Christopher Le Vien was elected President, Mr. William Park was elected Vice-President, Lt. Samuel D. Ferster, Secretary, Lt. John K. Campbell, Treasurer, and Capt. J. E. Hicks, Executive Officer. Gen. Frederick Waterbury, Captain Skinner and Captain Corsa were the speakers of the evening. Secretary Ferster's address is 20 Exchange Place, New York City.

Morcan Rod and Gun Club of Glens Falls (N. Y.) held a field day pistol shoot on June 2 at their range on Ashley Road. The meet attracted five pistol teams, one from the Saratoga Police, a team of Reserve Officers, another composed of telephone company employees, and two local club teams. N. Y. Telephone Club team turned in the highest score.

The Second Annual Indoor Cat-Together Shoot sponsored by the Braintree (Mass.) Rifle & Pistol Club, held on May 12, was a real success. Thirty-three medals and other prizes were awarded in the 15 matches fired.

In the National Muzzle Loading Rifle Association matches fired during April W. J. Pearson, Troy, Ohio, won the pistol event, while the score of Walter Grote, Canton, Ohio, "measured" the best for the 100-yard rifle match.

OFFICIAL BULLETINS—N.R.A. GALLERY MATCHES

1935 CIVILIAN CLUB GALLERY CHAMPIONSHIPS

Conditions: Open to the winning clubs of Division N. R. A. Interclub Leagues. Teams of 10, 5 high scores to count. Ten shots per man prone and 10 shots standing. To the winning team in each Division 5 silver medals. Bronze medals to second and third place teams.

ANY SIGHTS 50-FT. DIVISION

Union Rifle Club, East Brady, Pa.	963
McKean County Rifle Club, Bradford, Pa.	962
Portland Rifle Club, Portland, Ore.	960

METALLIC SIGHTS 50-FT. DIVISION

Affiliated Rifle Clubs of Rhode Island, Providence, R. I.	956
Duke City Rifle Association, Albuquerque, N. Mex.	951
Municipal Rifle and Pistol Club, St. Paul, Minn.	941

METALLIC SIGHTS 75-FT. DIVISION

Johnstown Rifle Club, Johnstown, Pa.	933
Dragon Rifle Club, Dragon, Utah.	919

NATIONAL INDIVIDUAL MILITARY CHAMPIONSHIP 50 FT.

(89 Entries)

Conditions: Three stages. First stage—10 shots prone, 10 sitting. Second stage—10 shots prone, 10 kneeling. Third stage—10 shots prone, 10 standing. Metallic sights. To the winner the National Military Gallery Rifle Trophy and a gold medal. Second, a silver medal; third to tenth, bronze medals.

Name and Address	Score
1. A. B. Churchill, Ft. Dodge, Iowa	592
2. Wm. Stephens, Jr., Philadelphia, Pa.	588
3. E. L. A. Bruger, Ladysmith, Wisc.	585
4. James Ponte, Topeka, Kans.	585
5. John Edwards, Jr., Hillsdale, N. J.	584
6. Wm. Hans, Jr., Scranton, Pa.	583
7. John Freitag, Chicago, Ill.	580
8. Robert Gadd, Hartford, Conn.	579
9. Jonathan Blount, Ithaca, N. Y.	578
10. C. W. Olson, Silverton, Oreg.	578

Bulletin No. 59

25 FOOT BASEMENT PISTOL MATCH— 2nd SERIES

(16 Entries)

Conditions: Forty shots, slow fire. Any .22 caliber pistol or revolver. To the winner a gold filled medal; second, a silver medal; third to fifth, bronze medals.

Name and Address	Score
1. Wm. Shauger, Jr., Franklin, N. J.	383
2. Robert Dunbar, Grosse Pointe, Mich.	377
3. Leo Allstot, Mason City, Iowa	370
4. D. A. Thimmesch, Dubuque, Iowa	370
5. E. Wackerhagen, Racine, Wis.	359

Bulletin No. 60

NATIONAL REGIMENTAL TEAM MATCH— 50 FEET

(41 Entries)

Conditions: Teams of 10, 5 high to count. Three stages. First stage—10 shots prone, 10 sitting. Second stage—10 shots prone, 10 kneeling. Third stage—10 shots prone, 10 standing. Metallic sights. To the winning team six silver medals. Bronze medals to the second and third teams.

Team and Address	Score
1. 9th Infantry, Ft. Sam Houston, Tex.	2915
2. 7th Infantry, Vancouver, Washington	2910
3. 122nd Infantry, Atlanta, Georgia	2897

NEW CLUBS CHARTERED

St. Mary of Redford Gun Club, Mr. George D. Morell, Secretary, 14589 Grandmont Road, Detroit, Michigan. San Francisco Customs Rifle and Pistol Club, Mr. Walter Craig, Secretary, 2360 Mission Street, San Francisco, California. Columbia Lodge 174 Rod & Gun Club, Mr. E. J. Shepherd, Secretary, 111 17th Street, S. E., Washington, D. C. Huntington Amateur Rifle Club, Mr. John F. McIntosh, Secretary, Huntington, New York. Mercury Gun Club, Mr. J. Lester Truman, Secretary, 2623 Lindsay Street, Chester, Pennsylvania. Delta-Y Rifle and Revolver Club Mr. R. G. Schreiber, Secretary, 616 Nastrand Avenue, Brooklyn, New York. Spartan Gun Club, Mr. E. Michael O'Sullivan, Secretary, 312 E. High Street, Jackson, Michigan. Wichita Post Office Rifle Club, Mr. C. K. Ray, Secretary, 1203 Sheridan Street, Wichita, Kansas. Snelair A. A. Rifle and Pistol Club, Mr. G. G. Martinson, Secretary, 14 Media Parkway, Sharpless Manor, Garden City, Pennsylvania. Square Circle Rifle and Pistol Club, Mr. G. G. Billstrom, Secretary, Mora, Minnesota. Riverside Police Department Rifle and Pistol Club, Mr. W. C. Begland, Secretary, 5 Burlington Road, Riverside, Illinois. Trojan Rifle Club, Mr. Fred Freshwater, Secretary, 443 13th Ave. No., St. Petersburg, Florida.

Newata Rifle and Pistol Club, Mr. L. C. Coltes, Secretary, 210 W. Cherokee, Nowata, Oklahoma. German-American Rifle Club, Mr. Carl Wittenberger, Secretary, 5005 Ross Road, Baltimore, Maryland. Hartford Rifle Club, Mr. W. H. Oakley, Jr., Secretary, Hartford, North Carolina. Danville Gun Club, Mr. Alfred Kamm, Secretary, 113 Ferry Street, Danville, Pennsylvania. National Newark & Hardy-Rose Rifle & Pistol Club, Mr. Wm. A. Lord, Jr., Secretary, 17 Washington Park, Maplewood, New Jersey. American Legion St. Paul Post No. 8 Rifle Club, Mr. Ernest F. Flamer, Secretary, 1192 E. Fourth Street, St. Paul, Minnesota. Findlay Post Office Rifle Club, Mr. Charles L. Redman, Secretary, 213 Ash Avenue, Findlay, Ohio. American Legion Rifle and Pistol Club, Mr. Raymond M. Eyerly, Secretary, Brighton, Colorado. Russell Springs Rifle and Pistol Club, Mr. Robert Smythe, Secretary, Saguache, Colorado. Mandan Rifle and Pistol Club, Mr. C. E. Arnold, Secretary, Mandan, North Dakota. General Motors Rifle and Revolver Club, Mr. Charles E. Davis, Secretary, R. F. D. No. 1, Pontiac, Michigan. Mission Rifle and Pistol Club, Mr. Clarence Wilmes, Secretary, 3361 Mission Street, San Francisco, California.

Cathlamet Rifle and Pistol Club, Mr. Alvin Carlstad, Secretary, Cathlamet, Washington. Berkeley American Trust Rifle & Pistol Club, Mr. R. N. Cairns, Secretary, 2533 Durant Avenue, Berkeley, California. Mt. Whitney Rifle Club, Mr. J. B. Hopkins, Secretary, Lone Pine, California. Atreco Rifle and Pistol Club, Mr. Scott H. Armstrong, Secretary, 425 No. 52nd Street, Philadelphia, Pennsylvania. Randolph Rifle Club, Mr. J. O. Rex, Secretary, Randolph, Utah. McPherson Rifle and Pistol Club, Mr. J. Chadwick Darrab, McPherson, Kansas. Freeport Junior Rifle Club, Mr. A. L. Cosgrove, Instructor, 212 So. Bayview Avenue, Freeport, New York. Rugby University School Rifle Club, Mr. Wallace G. Mathis, Instructor, 2024 Woodford Place, Louisville, Kentucky. Freeport Junior Rifle Club, Mr. A. L. Cosgrove, Instructor, 212 So. Bayview Avenue, Freeport, New York. Des Plaines Legion Junior Rifle Club, Mr. C. E. Fuller, Instructor, 1467 Maple Street, Des Plaines, Illinois. Asaroka Rifle Club, Mr. Philip F. Fix, Instructor, 414 No. Third, Bozeman, Montana. Steinmetz Rifle Club, Mr. John Sheehan, Instructor, 4941 West End Avenue, Chicago, Illinois.

Rugby University School Rifle Club, Mr. Wallace G. Mathis, Instructor, 2024 Woodford Place, Louisville, Kentucky. Seventeeners Junior Rifle Club, Mr. Charles Umbright, Instructor, 2439 Smalley Court, Chicago, Illinois. V. F. W. Junior Rifle Club, Mr. John S. Lee, Instructor, 1102 Park Avenue, Austin, Minnesota. St. Louis Country Day School Rifle Club, Mr. Manson M. Brien, Instructor, 6808 Washington Avenue, St. Louis, Missouri. Sagebrush Junior Rifle Club, Mr. Elmer L. Burkhard, Instructor, Eckley, Colorado. Sons of the American Legion Squadron No. 13 Junior Rifle Club, Mr. Earle M. Darby, Instructor, 3235 8th Ave., No. St. Petersburg, Florida. Standard Sharpshooters Junior Rifle Club, Mr. Stacey Eckert, Sr., Instructor, Stanford, Montana. American Legion Akron Post No. 209 Jr. Rifle Club, Mr. Fred R. Weekley, Instructor, 1655 Huguelet Street, Akron, Ohio. A-F Junior Rifle Club, Mr. Howard R. Steves, Instructor, 1889 Davis Street, San Leandro, California. Hi-Park Hi Rifle Club, Captain E. Muller, Instructor, 3449 Shenandoah, Dallas, Texas.

Oraton Rifle and Revolver Club, Mr. Theo. C. Smith, Secretary, R. Ojos Verdes, Livingston, New Jersey. Jeffersonville Rifle and Pistol Club, Mr. Vinal Phillips, Secretary, Jeffersonville, New York.

National Rifle and Pistol Matches and Small Arms Firing School will be held at Camp Perry, Ohio. Tentative dates are September 1-19, inclusive. First week will be devoted to School of Instruction; second week to all N. R. A. Matches and final week to firing of National Rifle and Pistol Matches. See feature article elsewhere in this issue.

Eastern Small-Bore Tournament will again be held at Camp Ritchie, Maryland. Dates are July 3-7. Programs may be obtained by writing F. J. Kahrs, Remington Arms Co., Bridgeport, Conn.

Iowa State Rifle Association .30 Caliber Matches at Des Moines, Iowa, July 20th and 21st. Many of the more popular matches to be fired at Camp Perry are included in the program. Information may be secured from G. G. Cooper, Secretary, 816 Telephone Bldg., Des Moines, Iowa.

Fourth Annual Florida State Pistol Matches will be held on the police range in Miami, Florida, July 7th and 10th, inclusive. For programs write L. G. Crews, % Miami Police Headquarters, Miami, Florida.

Ohio Rifle and Pistol Association announces try-outs for the selection of Ohio's National Match Civilian's team to be held as follows:

July 14 at Cincinnati—in charge of C. G. Kallensees, 2917 E. 3rd St., Dayton, Ohio.

July 21 at New Philadelphia—in charge of Sam Bond, 234 Second St., New Philadelphia, Ohio.
August 4 at Camp Perry—in charge of Dr. C. S. Mundy, 2132 Glenwood St., Toledo, Ohio.

Massachusetts Rifle Association will hold their 60th Anniversary Shoot on Sunday, July 28, 1935, at their Walnut Hill Range. Free Rifle, 20 shots off-hand. Standard American target. Any rifles, any ammunition, any sights. For details address W. S. Wait, Secretary, 10 Oakland St., Newton, Mass.

Oregon State Rifle Association 1935 Outdoor program includes Statewide .30 caliber matches on June 30 and July 21; and a pistol-revolver meet August 24 and 25. All matches will be fired at Clackamas Range, 5 miles southeast of Portland. For programs (an exceptionally well laid out booklet) address Neil Baldwin, 435 Meade Bldg., Portland, Oregon.

The Illinois State Rifle Association's .30-caliber program for July includes the Wimbledon (1,000 yards) fired at Ft. Sheridan on the seventh, an Army "B" Course at the Elgin (Ill.) Rifle Club range on the 14th, and the Annual Illinois State Matches at Ft. Sheridan on the 20th and 21st. The latter, which include the Felt, Black, Herald, Tribune, Leonard and Wrigley matches, are also the official try-outs for the selection of the state civilian team for the National Matches. Small-bore events are the Wimbledon (individual) and the 4-Man Team Long Range on the 7th, and the 5-Man Dewar Course Team Match on the 28th. The latter is the second of two try-outs for the Illinois team which will shoot against Wisconsin in the Interstate (a new event) on August 4th.

The Annual Outdoor Rifle and Pistol Competitions of the Indiana National Guard and the Indiana State Rifle Association will be held on the State Rifle Range, near Frankfort (Ind.), on July 20th and 21st. National Guard and Civilian teams to represent Indiana at the National Matches will be selected on the basis of scores made in these matches. For program address Col. Basil Middleton, Secretary, Indiana State Rifle Association, Culver, Indiana.

The 16th Annual Matches (Big-Bore, Small-Bore and Pistol) of the Wyoming Rifle Association will be held in Cheyenne, Wyo., July 4, 5, 6 and 7, at the Cheyenne Rifle Club Range, six miles north on the Yellowstone Highway. For programs address Geo. F. McIntosh, Secy., 810 Pebrican, Cheyenne, Wyo.

Washington State Rifle Association Annual Matches will be held at Ft. Lewis (Wash.) July 13, 14 and 15. Also the George E. Miller National Match Try-Outs on July 28 and Northwest Pistol Matches on August 4. For programs write Maj. I. W. Kenny, Secretary, Washington State Rifle Association, Ordnance Dept., Washington N. G., Camp Murray, Ft. Lewis, Wash.

COMING EVENTS

Fourth Annual Minnesota State .30 Caliber Rifle Matches will be conducted at Fort Snelling, July 27 and 28, 1935. Shooting will be 200, 300 and 600 yards. For programs and information, write to G. W. Ford, Acting Secretary, 5040 Russell Avenue, So. Minneapolis, Minn.

Michigan State Rifle Association Annual Matches will be held on the dates and range as follows: August 17-18 for competitors from the eastern area of the state. August 24-25 for competitors from the western area of the state and from the Upper Peninsula. All matches will be fired at the Grand Rapids Rifle Range, except that Vice-President Stuart B. Miller is granted permission to fire short and mid-range matches on August 17, 18, 1935 in the Upper Peninsula.

Fourth Annual Eastern Police Pistol Championship Matches will be held at Teaneck (N. J.) on August 17. See announcement elsewhere in this issue. For programs address Sgt. Theodore Morgan, Teaneck Police Dept., Teaneck, N. J.

Second Annual "Zeppelin Open Small-Bore Tournament" will be held at Akron, Ohio, on Saturday and Sunday, July 27 and 28. Programs now being mailed. Write to Clyde Schetter, % Good-year Tire & Rubber Co., Akron, Ohio.

Statewide Pennsylvania Small-Bore Shoot sponsored by Indiana (Pa.) Rifle Club will be held over that club's new range July 12-13. For programs write Alan B. Salkeld, Secretary, 74 E. Philadelphia St., Indiana, Pa.

Cuyahoga Civilian Marksmen's Association announces a series of outdoor shoots to be held at Camp Perry (high power) on July 29 and 30. Also Small-Bore Matches at Hart's range, at the intersection of Schaaf and Brook Park Roads, in Cleveland, Ohio, on the dates as noted below. July 14th, 50 meters, metallic sights, prone, kneeling and offhand, for individuals and teams. August 11th, 50 and 100 yards, metallic sights, for individuals and teams. September 22, 50 and 100 yards, any sights, for teams. October 13th, 50 meters, any sights, prone, kneeling and offhand. October 20, 50-shot offhand match.

The Wisconsin Rifle Association and County Line (Wisc.) R. & P. League announce the following schedule of matches: July 13th and 14th, State Small-Bore Championship Matches, Kohler, Wisc.; July 28th, Long-Range Small-Bore Wimbledon Matches, 200 and 300 yards, County Line Range (also .30 caliber matches at Solon Springs on July 27 and 28). August 4th, Wisconsin-Illinois Dewar Match, Ft. Sheridan, Ill.; August 10th and 11th, State Pistol and High-Power Championship Matches and Tryouts for selection of civilian team, County Line Range; September 15th, Wisconsin Reserve Officers Association Matches at County Line Range; September 22nd, Regional Small-Bore Fall Championship Matches, County Line Range. For further details address Loren D. Schiff, Secy., 3358 N. Downer Ave., Milwaukee, Wisc.

Hutchinson (Kansas) Rifle Club will hold their Fourth Annual Independence Day Sports Fiesta in Hutchinson, Kansas, on July 4th. For details write Wm. Ruddick, Secy., Hutchinson, Kansas.

Second Annual Fort Harmar Open Small-Bore Tournament will be held at Marietta, Ohio, on July 13 and 14. The program, sanctioned by N. R. A., consists of matches that will prepare shooters for the big shoot at Perry. Generous prizes, plus the famous Fort Harmar Trophy, will be awarded. Programs may be obtained from L. R. Miller, 735 Fourth St., Marietta, Ohio.

Central Pennsylvania Rifle Club, Inc., announces the following schedule of outdoor rifle and pistol matches to be held at Indian Echo Cave, Hummels-town, near Harrisburg, Penna., July 14, August 17 and 18, September 15, October 13. For details address M. D. Sours, Sec'y, 324 So. 16th St., Harrisburg, Penna.

Orange County (N. Y.) League of Rifle Clubs will hold its first annual outdoor shoot on July 28th. Medals, cash and merchandise prizes will be given. For full particulars address John R. Osborne, 54 Lake Avenue, Middletown, N. Y.

Roosevelt Rifle Club of New York, sponsors of the annual John Wallace Gillies Memorial Matches, announces that these events will be held on Sunday, July 21, at the Varian Farm, Oregon Road, Peekskill, N. Y., starting at 10 a. m. Both matches are fired over the Dewar Course, the feature event under Dewar conditions and the other match permitting use of scope sights. Entrance fee for each match is \$2.00, half of which amount will be returned in cash prizes. For further details address Geo. S. Bergman, Secy., 1235 Park Ave., New York, N. Y.

The Philadelphia (Pa.) Rifle Association announces the following summer schedule of matches: July 20th—Pistol Championship. 50 shots at 50 yards with any pistol except the Free Pistol. August 3rd—50-Yard Slow-Fire Revolver Match. 30 shots. Any revolver, .38 caliber or larger. August 17th—Revolver Championship. 30 shots slow fire at 50 yards with any revolver. Sept. 7th—45 Automatic Championship. To be fired over the National Individual Pistol Course. Sept. 14th—Small-Bore Dewar Match. Sept. 28th—Rifle Championship. 20 shots at 100 yards and 20 shots at 200 yards. Oct. 19th—All-Round Championship. 10 shots with revolver (2 strings of 5 shots each, 15 seconds per string). 10 shots with rifle (2 strings of 5 shots each, 20 seconds per string). 10 shots with shotgun at blue rocks.

Fourth Annual Northern Minnesota Small-Bore Shoot, sponsored by Virginia (Minn.) Rifle Club, will be held in that city on August 3 and 4. Gold, silver and bronze medals will be awarded in all individual matches and gold medals will go to the Dewar Course winning team. For details address Alex Ellison, Secy., 121 7th St., South, Virginia, Minn.

First Annual Small Bore Match of the "Paddy Wagon Rifle Club" will be held at Del Rey, Illinois, on July 28th. Team and Individual classes at 50 yards, 50 meters and 100 yards. Place medals to individuals; cup to winning team. Entry fee 75¢. For details address Andrew C. Rasmussen, Secretary, Gibson City, Illinois.

Big Bear Lake (Calif.) Rifle Club will conduct an all day program of .22 and .30 caliber matches at their range on Sunday, July 7. For details, address W. C. McAllister, Secy., Big Bear Lake, Calif.

Second Annual Rifle and Pistol Tournament conducted by The New York Central A. A. Rifle Club will be held on their thirty-nine acre range at Stop 35, Albany-Schenectady Road, Sunday, July 28th. The program will consist of many attractive matches including the N.Y.C.A.A. Individual and Two-Man Team Championships for which the annual engraved silver cup and gold medals will be awarded in addition to cash prizes. Brigadier General Charles E. Walsh, Colonel Charles N. Morgan and Major G. Ross Rede, with members of their official staff, will supervise range activities and scoring. For programs write Frank J. Corr, Jr., Secretary, 81 No. Allen St., Albany, N. Y.

Elizabethtown (Penna.) Rifle Club will hold its first Eastern Pennsylvania Rifle and Pistol Championship Matches on August 10 and 11. See announcement elsewhere in this issue. For programs address O. H. Schwanger, Secretary, Middletown, Penna.

Butte (Montana) Gun Club will hold the Skalkaho shoot at Stony Lake, near the summit of Skalkaho Pass, on Sunday, August 4. This is a four-city shoot and annual picnic for the small-bore clan of the Butte district. Also on Sunday August 11 at Butte the Gun Club's big annual small-bore shoot. For details write Roy Leighton, 1000 Utah Ave., Butte, Montana.

The Norristown (Pa.) Rifle Club desires to arrange pistol matches for the current outdoor season, both shoulder-to-shoulder and postal, with other N. R. A. clubs, 25 and 50-yard ranges, visitors to name the course of fire and the date subject to negotiation. Write to M. W. Scanlon, Norristown Penn Trust Bldg., Norristown, Pa.

FIRST STATE TEAM NAMED

KANSAS is the first state to report results of try-outs for the Civilian team to represent that state at the National Rifle Matches in September. The Kansas team was selected on the basis of scores made in the Annual .30-Caliber State Matches, fired at Ft. Riley May 26-27. Earl Cole of Mankato was named Captain of the team. The members and their scores follow: Emil Zumbrunn, 471; Floyd Mauk, Augusta, 463; James Flannagan, Junction City, 461; Dr. W. A. Smiley, Junction City, 457; William Smiley, Jr., Junction City, 455; H. H. Clawson, Augusta, 455; Frank Sourwin, Topeka, 454; A. W. Wright, Hutchinson, 454; R. W. Geisen, Minneapolis, 451; R. V. Blanchard, Junction City, 450; E. S. Coulter, Topeka, 437.

The state matches were successful despite bad weather which cut down attendance, and delayed firing of some of the matches on schedule. At the annual meeting of the Association, held May 27, all of the officers were re-elected. They are: George W. Stansfield, of Topeka, President; A. K. Johnson, of Hutchinson, Vice-President; Dr. J. C. Lehan, of Junction City, Secretary; and Henry Fraser, Jr., of Leavenworth, Treasurer.

Seventy-nine Kansas marksmen participated in the annual state small-bore championship shoot as guests of the Hutchinson Rifle Club on May 12. E. S. Coulter, Topeka, was the outstanding small-bore winner. He scored 398 to win the senior small-bore rifle championship, captured a 50 and 100-yard special event with 399, and won the grand aggregate of two special events with 589. W. B. Kirkpatrick, also of Topeka, won both pistol matches.

FIFTH SOUTHLAND PISTOL SHOOT

ONE world's record and two new range records were established on the San Diego Police Pistol Range during firing of the Fifth Monthly Southland Pistol Shoot, held May 12.

In the initial match of 20 shots at 50 yards, .32 or larger, Jake Engebrecht led the way with 186 x 200, while H. J. Adams, Jr., of the San Diego sheriff's office, and J. Dircks, followed three points behind. Chief Davis tied one of his men, C. E. Ward, for fourth with the score of 180 x 200.

A three-point lead was not enough for "Jake," so he put on the heat to the tune of 289 x 300, to win one of his favorite events, the National Course, and thereby establish a new world's record. His 96 at 50 yards was a good start, but when he followed it with a 100 timed fire, strong men fainted. Rapid fire run in a flat ten seconds on disappearing targets proved disconcerting enough to cause him to drop

seven more points, but he was still head and shoulders above the crowd, and had set a new record of 289 x 300 over the popular National Course.

Taking a deep breath, Jake unlimbered his .45 over the National Course by taking another first with 267, while Lee Young made 265 which kept Capt. Vallance in third. Engebrecht also won the grand aggregate with the new range record of 646 x 700. Mrs. Starkey and Mrs. M. Semmelmeier tied in the Ladies match at 25 yards with 194 x 200. Mrs. Baxter was third with 187.—H. J. ADAMS.

SAVANNAH RIFLE ASSOCIATION ANNUAL BANQUET

DR. F. C. WILSON, holder of the Wimbledon Cup in 1897-98-99, was the featured speaker at the annual banquet of the Savannah Rifle Association on May 28th.

Doctor Wilson traced the early history of the association from its organization on September 17, 1895, at the famous old plantation called the Hermitage, where their first target shooting was done under a grove of white oaks. It was one of the first rifle clubs to become affiliated with the National Rifle Association and it developed rapidly under the able leadership of Captain James McAlpin. The Georgia shooters reached the height of their power towards the end of the last century when they were credited with several national team and individual championships and were known as the strongest shooting aggregation in the country.

Doctor Wilson has not spent much time on the target range in recent years, but he has maintained his interest in guns and has earned a reputation with shotguns and sporting rifles. He is a one-time national live bird champion and is at present an outstanding skeet shooter.

He was preceded on the program by one of his teammates on the old Georgia championship outfits, Frank Batty, who won his first national title in 1897. C. B. Lister, N. R. A. Secretary-Treasurer, outlined the plans for this year's national matches.

TENTH ANNUAL WILBURTHA POLICE MATCH

THE tenth annual Wilburtha match, held on May 25th at the New Jersey State Police Training School, near Trenton, N. J., was the largest five-man team event ever held in the history of handgun shooting. Eleven State Police, twenty-three Municipal Police, seven Special Police, seven Military and seven Civilian; a total of fifty-five teams fired the feature match.

Pennsylvania State Police captured first place with only twenty-six points down

for 150 shots fired by five men. Michigan came in second, followed by New Jersey and West Virginia. The special trophy awarded to teams using the .45 Army Pistol was taken home by the New York National Guard and it is interesting to note that their scores were only about five per cent lower than the winners who fired .38 revolvers. Hall, West Virginia State Police, was high individual, with 98, 100, 100—298, and Capt. Amundsen, 78th Division, was high-gun with the .45 Auto, 99, 95, 98—292, thereby reducing the margin between revolver and automatic to exactly two per cent and repeating his performance of last year with exactly the same score.

Wilburtha is a fifteen-target range carved out of a hillside.—ROY S. TENNEY.

IONE CLUB COUNTY SHOOT

THE first Pend Oreille County Small-Bore Match was held at Ione (Wash.) May 19. Thirty-two riflemen and twenty-two handgun shooters participated. Weather was ideal, sunshiny and warm, some fish-tail wind to buck but that only made a little tougher match out of it. The first order was down on the firing line at 8:10 a. m., and all matches were shot and places and awards figured out at 3.30 p. m.

Del Knapp had a big day and carried off first honors for the day, both in the Tyro and Aggregate rifle matches. He also shared winning honors with Roy Reed in the Buddy's Match.

A. A. Shackleton won the 50-yard Match and got possession of the Ione Hospital Trophy for a year as high man in the first two matches (20 shots at 50 yards and 20 shots at 100 yards).

Ione No. 1 Team won possession of the Ione Rifle Club Trophy for the coming year. Next year the match will be held in some other city supporting a club within the county.

H. J. Hadin

V. J. HADIN, originator of the well known Hadin sling keeper, passed away on March 10th after an unsuccessful operation. He was the organizer of the Schenectady N. R. A. Club, being an officer of that club at the time of his death, and was enthusiastic about everything connected with N. R. A.

Mr. Hadin had won many medals in various matches and was selected as a member of the International Small Bore Team that was sent to England in 1931, but unfortunately could not arrange his business at that time to accept the honor. His untimely passing means the loss of a friend to many and the loss of a staunch supporter to the game.

OREGON SMALL-BORE MATCHES

(Condensed from *Windage*)

UNDER weather conditions calculated to separate the sheep from the goats, Oregon's largest and most successful small-bore out-door tournament was fired May 10, 11 and 12 at the Clackamas military range.

Shooters from as far south as Los Angeles and north as far as Ione, Wash., and as far east as Eureka, Montana, found a combination of rain, wind and sunshine the order for the first two days, with ideal conditions prevailing Sunday when Old Sol appeared in great glory to warm the bones of the "belly shooters."

Such nationally and internationally known "big shots" as L. A. Pope, Los Angeles, who is secretary of the N. R. A. and C. S. R. A.; Jim Wolford, Medford; Gairie Upshaw, Yoncalla; Roy Meister, Seattle; Wallie Burnham, Spokane; G. E. Widger, 1935 high national individual in the N. R. A. 50-foot gallery matches, and a host of other shooters whose presence at any northwest match spells competition.

The feature attraction and grand finale of the match was the International 10-man team match, fired in postal competition with the Yorkshire Rifle Association, Yorkshire, England. Members of the team were composed of the 10 men having the highest aggregate scores in matches 7, 8, 9, 10, 11, 12 and 13. Despite the lateness of the hour (between 7 and 7:30 p. m.) the opinion of the team members was that they had dropped less than 40 points from the possible 2000.

Detailed scores, omitted here due to lack of space, are printed in the May issue of *Windage*, together with other shooting news of the Northwest. *Windage* is published by the Outlook Company of Gresham, Oregon.

MORE ABOUT MUZZLE-LOADERS

THE modern rifle with its exact loading, fine sights, with a steady nerve and a good eye, is a mathematical certainty, but the old muzzle loader with its open sights, hand-made loads, and guessing windage, brings a mental hazard not obtained in modern rifle shooting.

These old-fashioned matches are a continuation of our fathers' shooting matches. There has been a renewal of interest in the old long rifle during the past few years.

The *Outdoor Indiana*, with the game clubs, has made the people of Southern Indiana a game-minded people or "game conscious." We are learning to think conservation—conservation of our wild life, birds, beasts and fish, and most of us belong to every game club we can join and any ideas of conserving our forest or game meets with enthusiastic support.

These men are not idlers or triflers. All reside on farms of the smaller towns. Most are farmers, but included are physicians, bank presidents, tavern-keepers, road-house proprietors, machinists, carpenters, life insurance salesmen, and Commander of "Santa Claus" Post of the American Legion.

To the pioneer a gun was a most valued possession. He depended upon the long rifle for supplying his table with meat; and meat was their chief article of diet. The rifling or lands inside the barrel had to be kept clear and clean of lead to give to a bullet its twisting or spiral flight, that produces accuracy in shooting. Such terms as smooth bore, powder burns in the barrel, "mighty small calibre," 60 or 80 bullets to the pound, were then familiarly understood terms.

The pioneer carried his rifle with him all the time. At night or resting, it was always within reach. No wonder he loved his gun; he polished it, cared for it, decorated it. The gun was a friend and protector.

In most log cabins these guns have their especial resting place, usually over the door, on a pair of deer antlers or scraped cow horns or over the fireplace.—Dr. CLAUDE LOMAX.

INTERCOLLEGIATE WINNERS ANNOUNCED

A BULLETIN from the National Board for the Promotion of Rifle Practice, covering results of the Annual Intercollegiate Gallery Rifle Team Matches, sponsored by the War Department, announces winners of the 1935 college competitions:

SENIOR UNITS

(33 Entries)

	Score
1. University of Idaho, Moscow, Idaho. A Silver Trophy and Bronze Medals.....	7783
2. Cornell University, Ithaca, N. Y. Bronze Medals.....	7769
3. Georgia School of Technology, Atlanta, Ga. Bronze Medals.....	7754

JUNIOR UNITS

(47 Entries)

	Score
1. Allen Academy, Bryan, Texas. A Silver Trophy and Bronze Medals.....	7649
2. Greenbrier Military School, Lewisburg, W. Va. Bronze Medals.....	7649
3. Hume-Fogg High School, Nashville, Tenn. Bronze Medals.....	7644
4. Cretin High School, St. Paul, Minn. Bronze Medals.....	7599
5. St. Thomas Military Academy, St. Paul, Minn. Bronze Medals.....	7585

SECTION 55c SCHOOLS

(7 Entries)

	Score
1. DeWitt Clinton High School, New York, N. Y., Winner. A Silver Trophy and Bronze Medals.....	7793

WARNING

SEVERAL complaints have reached N. R. A. headquarters from shooters who have given orders for guns and equipment to a salesman named Thomas D. Miller claiming to be a representative of a firm in New Jersey. These people report that after waiting several weeks for delivery of the articles upon which they had made a twenty-five percent cash deposit, they investigated and discovered that the address they had been given was fictitious. Members are advised never to give cash deposits on the purchase of shooting supplies unless the salesman is personally known to them.

ARSENALS CLOSED SATURDAYS

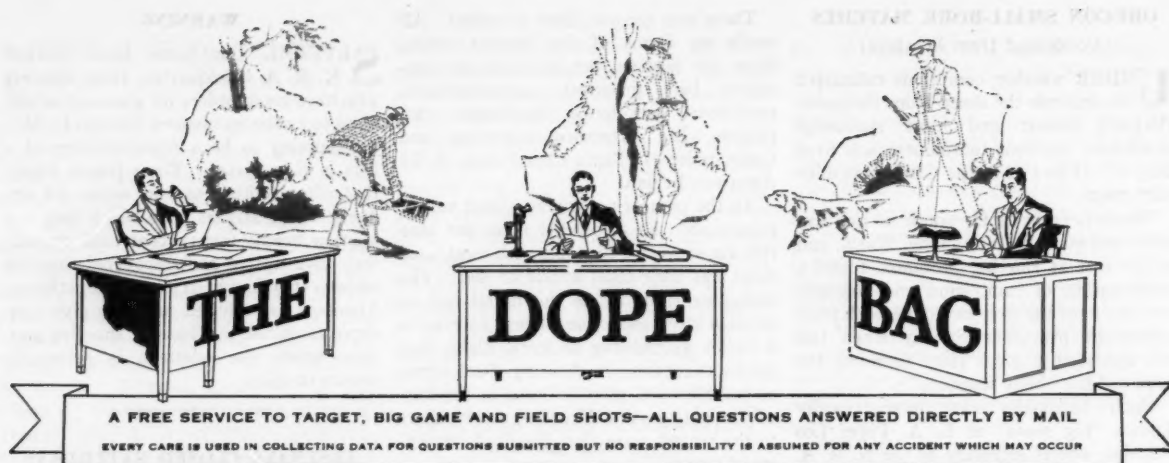
A RSENALS and ordnance depots are closed every Saturday during the year. They are open from Monday to Friday, inclusive, between the hours of 8:30 and 4:30, except on holidays. N. R. A. members desiring to call at an arsenal or ordnance depot for arms or other supplies may do so after obtaining an approved order from the Director of Civilian Marksmanship.

COLORADO YOUTH SHOWS WAY

FOR boys who think they have no time for rifle shooting it might not be amiss for them to read what one boy accomplished in less than one year, June, 1934, to May, 1935. Jack Christner, a Colorado boy, who has just passed his 17th birthday, has made the following record:

He won every medal from Pro-Marksman to Expert Rifleman offered by the National Rifle Association; played second base and center fielder for the junior Legion baseball club of Northeastern Colorado; earned a letter in football, playing quarterback; earned a letter playing forward in basket ball; played on the Logan County champion team in basket ball, winning the cup for his town against eleven other competing teams, awarded sweater; was a member of the junior Legion rifle team that won the Colorado State Championship and Cup at Golden, Colorado, ranking second on his team; a graduate of the Willard High School, with a perfect attendance record, a report card with an "A" record throughout the entire year and awarded a four-year scholarship (value \$900.00) at the University of Denver for scholastic ability.

While he was accomplishing all these things, young Christner carried on agricultural projects in poultry and sold nearly enough poultry and eggs to pay his expenses without help from his parents. Let other Junior N. R. A. Members "shoot" at Jack's splendid record.



Conducted by F. C. Ness

The .32 S. & W. Long

THERE is a small brother of the popular .38-Special caliber which is often overlooked by handgun shooters. It is as accurate as the .38 Special for target shooting, and it is more effective than the .22 rim fire or .32 A.C.P. on small game. It is cheaper to buy, lighter and less bulky to carry and more pleasant to shoot in small light revolvers as compared with the .38 Special. I am referring to the .32 S. & W. Long cartridge for which most of the smaller Colt and Smith & Wesson revolvers are chambered. In arms of this caliber the .32 Colt New Police (Police Positive) cartridge may be used interchangeably. The difference between the two cartridges is analogous to that existing between the .38 S. & W. Special and the .38 Colt Special.

The .32 S. & W. Long is loaded with a 98-grain round-nose bullet to velocities ranging between 700 f.-s. and 800 f.-s., depending on the maker of the test gun, the average ballistics of the heavier loads being 790 f.-s. and 140 ft.-lbs. The .32 Colt New Police is loaded with a 100-grain flat-nose bullet to approximately 730 f.-s. and 120 ft.-lbs. in a 4-inch barrel. The latter is more effective on small game because of its heavier flat-point bullet. Both are more effective than the smooth, hard, light bullet of the .32 A.C.P. (7.65-mm. Browning) which is loaded with a 73-grain conical-pointed metal-cased bullet to 950 f.-s. and 140 ft.-lbs. As to relative shock power, Major Hatcher lists these three as follows: .32 Colt New Police, 13.7, .32 S. & W. Long, 12.5, and .32 A.C.P., 10.0.

One attractive side-arm in this caliber is the 20-ounce S. & W. Regulation Police, especially with 4-inch heavy barrel. An-

other is the Colt Police Positive which weighs 20 ounces with 4-inch barrel. Both the above guns are improved and made man-size in the grip department by the addition of Roper revolver stocks. For target shooting 6-inch barrels and adjustable sights may be chosen, an example being the 23-ounce Colt Police Positive Target revolver in .32 caliber. There is also an Iver Johnson target model revolver available in this caliber with a good walnut grip, adjustable Patridge-type sights, 6-inch barrel, and 23-ounce weight. All the above arms are smaller than .38 Special revolvers, as well as being lighter, and consequently they are more easily carried as side arms for small-game shooting. With full-size stocks and 4-inch barrels the overall length of these revolvers is under 8½ inches.

Such practical game shots as Ashley Haines, A. L. A. Himmelwright and the late Walter Davenport were exponents of this caliber who originally aroused my interest in it. Records indicate the .32 S. & W. Long is fully as accurate as any of the best target cartridges for handguns. In competitive match shooting P. M. Chiswell won out with it over the .38 Special. All these shooters are advocates of square-shoulder, flat-nose or blunt-nose bullets for improved scoring or killing effect. I happened to have had a hand in designing .32-caliber wadcutter bullets used by three of the men mentioned, these bullets being obtained through Belding & Mull. After extensive practical experience with it, Mr. Himmelwright has become so thoroughly sold on the light .32-caliber handgun for small-game killing he has suggested, as his ideal, a special gun and load for the purpose.

Today we have a standard full-charge wadcutter target and small-game load in the .32 S. & W. Long caliber, made by the Peters Cartridge Company. The flat-end bullet in this factory load is seated deep, flush with the case mouth. It cuts a full-diameter, clean-edge scoring hole in target paper, and on game it imparts maximum shocking effect for this caliber. This load is at its best at short range, but it is also accurate and effective at 50 yards.

In the first Iver Johnson revolver in which it was tried the alignment was imperfect and the chamber-bore tolerance was too great, which evil combination resulted in our getting very poor results with the wadcutter load. It also resulted in excessive leading at the breech.

In response to our criticism and suggestions, the makers stated they could not make their gun to perform as satisfactorily in this caliber as in the .22 Long Rifle caliber. However, years before, I had owned an Iver Johnson 23-ounce, 6-shot revolver in .32 S. & W. Long caliber which kept its bullets inside 1½ inches at 10 yards and shot consistently into a 6-inch circle at 50 yards, and with that earlier success as our argument we obtained a second gun which proved to be more satisfactory. With standard American and Dominion Cartridge Company ammunition we have scored as high as 87 x 100 at 50 yards with it.

With the Peters wadcutter load we have scored around 80 at short range and regularly got four out of five shots in 4½ inches at 50 yards, the one wild shot sometimes doubling the spread of the group. This occasional unaccountable shot we blamed on deformation of the bullet caused by the absence of a bore-size nose and by its exaggerated jump in any standard revolver chamber.

The same thing occurred in the heavy

M. & P. S. & W. revolver specially bored for the .32 S. & W. Long cartridge and loaned for our test by Major Wesson. The S. & W. revolver has established its ability with regular ammunition in this caliber, so we used it exclusively with the Peters wadcutter load. At 50 yards we got groups of 4 shots ranging from 2½ to 3½ inches, but always with one flier out of each five shots enlarging the group to 5 or 6 inches. Our offhand scores ran from 76 to 86 at 50 yards. The jump of the wadcutter bullet is greater in this special revolver but it is nearly perfectly aligned so that the "decentering" or deformation of the wadcutter bullet is apparently less than in my Iver Johnson revolver. The two revolvers which were tried with this ammunition compare as follows:

THE TWO REVOLVERS

	Smith & Wesson	Iver Johnson
Caliber	.32 S. & W. Long	.32 S. & W. Long
Capacity	6 shots	6 shots
Barrel	6 inches	6 inches
Balance Pt.	Case mouth	Case mouth
Rifling	5 wide, right	5 wide, right
Weight	39 ounces	23 ounces
Pull	2¾ pounds	3¾ pounds
Total Bore	7 9/16 inches	7 3/16 inches
Total Travel	7 1/16 inches	6¾ inches
Cylinder	1 9/16 inches	1¼ inches
Gap	.013 inch	.025 inch
Jump	15/16 inch	10/16 inch
Fired Case	.342 inch	.343 inch
New Case	.334 inch	.334 inch

The .32 S. & W. Long or .32 Colt New Police cartridges give a penetration of 4 pine boards as compared with 5 boards for the .32 Long Colt and .32 A.C.P. The .32 Long Colt is an inferior noninterchangeable cartridge which is now practically obsolete. The .32 Long rim fire and all the shorter .32-caliber cartridges are inferior in power as well as in accuracy. The .32-20 (.32 W.C.F.) is a longer cartridge, inferior in accuracy, excessively powerful for soft small game and not adapted for the small, light models of side arms for which the .32 S. & W. Long is adapted.

For the reloaders the .32 S. & W. Long or .32 Colt New Police represents maximum economy because it is the smallest cartridge which can be handloaded efficiently. The case is fully ¾ inch long and is more conveniently handled than .32 A.C.P. or similar shells. It is stronger than the longer .32-20 case which too frequently parts company with its head after very few reloadings. At \$1.20 per 100 the cases are 40 cents cheaper than .38 Special cases and the amount of powder and lead required for full loads is only about ⅝ of that required for the .38 Special, representing a total saving of at least 33% in cost of components and 16% in comparative cost of factory ammunition.

The lead-alloy bullets weigh practically an even hundred grains and with any of them can be used 2.1 grains weight Hercules Bullseye or duPont No. 6 or 2.5 grains Pistol Powder No. 5. I have in mind the Ideal flat-nose bullet No. 31357, the Belding & Mull blunt-nose bullet No. 31499 and the Bond bullet No. D-314528, which is a square-end wadcutter. The full charge of blackpowder with any of these bullets is 13 grains FFFg. The case is straight-walled and easy to reload for gallery, basement or attic purposes with a ball or buckshot (.313 to .319 inch) and a charge of 2 grains weight bulk shotgun smokeless or 4 grains fine blackpowder.

.38 SPECIAL IMPACTS

WE ROUNDED up our odds and ends of ammunition and fired them in the Colt Shooting Master for impact at 30 yards. The Ideal 150-grain wadcutter, No. 360344, with a comparatively weak load (6.0 grains weight) of Hercules No. 2400 powder landed only an inch above the aiming point with sights held level. The B. & M. 150-grain wadcutter, No. 359165, with the same charge but seated more deeply in the case went an inch higher. A booster of 3 grains FFFg blackpowder was then added to the original load, and the Ideal bullet landed 5 inches above aim. Then a large-size rifle primer (W.R.A. No. 24 N.F.) was used with the same load and the impact was changed to 7 inches above aim.

The impact of factory loads varied with the weight of charge and bullet. The R. A. midrange wadcutter landed 2½ inches above aim. The Peters 158-grain full-charge wadcutter landed 3½ inches above aim, as did the R. A. standard load with same weight of bullet. The U. S. C. Co. .38 Colt Special and Western C. Co. .38 S. & W. Special both landed 4½ inches above aim, but the heavier Western Special Super-Police 200-grain bullet landed 7 inches above aim. These, of course, are average impacts, at least three shots being fired with each different load.

Using the same gun, we then did some group shooting with 9.0 grains weight No. 2400 powder, using different bullets, cases and primers without any appreciable change in impact at 20 yards. Although this powder burns best at pressures somewhat higher than the normal level for handguns, the groups were consistently good and we scored above 80 on the Standard American target, shooting offhand. We used Peters brass and nickled cases with large-size rifle and pistol primers and Western Super-X nickled cases with small-size pistol and rifle primers, but Bond and Hensley bullets consistently grouped 1½ inches above aim.

The new 155-grain Bond wadcutter bullet No. I-358765, was then tried under similar conditions and gave the same impact with slightly better grouping. This Bond bullet even with Hercules No. 2400 rifle powder did so well we tried it at 50 yards for impact and score. The impact was 5 inches above aim at 50 yards which was favorable for a 6-o'clock hold and we got offhand scores of 88 and 83 on the Standard American target. Apparently this new Bond bullet is a very accurate one and should be a winner when properly loaded with any suitable pistol powder.

MORE IMPACTS AND SCORES

FOR final check the S. & W. M. & P. Model revolver was tried at 25 yards with the Peters Wadcutter load in .32 S. & W. Long caliber. The impact was directly on the point of aim, agreeing with the regular .32 Colt New Police load in the same gun. The wadcutter group measured 1¾ inches. The new McFeeter filler-block helped our offhand holding, and we got a score of 94 x 100. In thirty shots there were three deformed bullets which went wild and keyholed.

The Colt Shooting Master with Western Super-X metal-point ammunition shot 2 inches above aim at 25 yards. The group measured 2¼ inches. The offhand score was 93 x 100. With the Hensley bullet and 3.8 grains No. 5 powder loaded by Barr in the Star Progressive Loading Machine, the impact was 3 inches high at 25 yards. My offhand group measured less than an inch and, of course, scored perfect.

CELLOPHANE PRESERVES CASES

E. M. HOWARD, Executive Officer of the Kansas City Rifle & Revolver Club, says he wraps his .45-caliber cartridge cases in a strip of cellophane before inserting them in the leather loops of his belt. This, it seems, effectively prevents formation of verdigris and keeps the brass bright and clean, even when carried in the belt during an entire season of winter weather.

SYNTHETIC-PEARL STOCKS

I VAN A. FLATMAN, 440 Greenwood Ave., Toronto, Ontario, sent us a pair of stocks which we have been trying on the K-22 S. & W. revolver with the S. & W. Grip Adapter. They are regular factory walnut stocks of the square-butt type, plus Mr. Flatman's synthetic-pearl coating which gives them the appearance of solid mother-of-pearl stocks when on the gun. The general tone is a smooth gray with flecks of silver and white which

make them attractive to the eye. They feel secure in the hand and they have maintained their neat appearance now, after two months' trial.

It is Mr. Flatman's idea to similarly coat other shooters' stocks at a cost to them of a couple of dollars. This, of course, makes available a stock that looks like pearl, but at much lower cost. Therefore, it might be profitable for anyone interested in pearl handles to contact Mr. Flatman.

RECENT SCOPE EXPERIENCES

WE TRANSFERRED the low-price 22 Junior Lyman scope sight to the M-54 Hornet rifle and obtained several 1¼-inch groups and two 1½-inch 10-shot groups at 100 yards. Then we took it off to fit and try a new slip-over rubber cheek rest, because the drop from scope to that Winchester comb is 2¾ inches, too great for comfort. The scope was replaced using extreme care to move the mount against the undisturbed adjusting screws before drawing up the locking screws, but the zero changed 1½ minutes to the left.

Next, the gun and scope were carried in a soft-leather case for a couple of weeks before shooting to see how that over-hanging Lyman mount could take it. Yesterday with the same ammunition, the same firing point, the same distance, the same hour and practically identical light and weather, we tried it for zero. Result, a two-inch group (7 shots in 1¼") with the impact 1½ inches higher than previous zero at 100 yards.

Mount and scope were examined and the adjusting screws were found to be loose but the locking screws were tight, and apparently the adjustment had not been disturbed. The sight as a whole is easily sprung by placing a hand on the scope and applying slight pressure, but apparently it springs back when released. One good feature of this Lyman outfit is that all screws are hardened. Also the scope itself is a very clear one, despite the low price.

Our Wee-Weaver continues to stand the gaff on the M-34 Remington in our plinking practice. It now has the means for definite adjustment, thanks to the new rear mount with adjusting screws in both feet. It is aligned on the gun for approximate zero as formerly, but now two additional and more convenient means are provided for refining the rough adjustment. These screws are turned with a screw driver and they are locked with small hexagon nuts.

I find this new mount a great improvement. In contrast to my first experience with this 3-29 Weaver, I replaced the mount and zeroed it perfectly all in the time of a quarter-hour. Send back your original rear clamp for replacement or get

A Windage Table for the .22 Hornet

ON A DAY when there was a wind which Dr. Lincoln Riley of Wisner, Nebraska, estimated at 25 miles per hour (he is an excellent wind doer of 50 years' experience) he fired at 100 yards with Winchester make of .22 Hornet Super Speed ammunition, M.V. 2625 f.-s. in a Winchester Model-54 rifle of known zero. Dr. Riley fired first with the wind at 3 o'clock and obtained a small 10-shot group, the center of impact of which was just 6 inches to the left of the point of aim. He then exactly reversed his direc-

tion of fire, and fired with the wind from 9 o'clock, and again got almost precisely 6 inches wind deflection to the right, and a small group.

Dr. Riley has therefore established that a 3 or 9 o'clock wind of approximately 25 miles per hour deflects the 46-grain .22-caliber Hornet bullet at M.V. 2625 f.-s. approximately 6 inches. With this as a basis, I have computed a table of wind allowance which very likely is also approximately correct.

—TOWNSEND WHELEN.

WHELEN TABLE OF WIND ALLOWANCE
(.22 Hornet Rifle, 46-grain bullet, M. V. 2625 f.-s.)

Range	Miles per hour	3 and 9 o'clock winds Inches	2, 4, 8, & 10 o'clock winds Inches	1, 5, 7, & 11 o'clock winds Inches
50 yards	5	0.5	0.4	0.2
	10	1.0	0.9	0.5
	15	1.5	1.3	0.7
	20	2.0	1.7	1.0
	25	2.5	2.2	1.2
100 yards	5	1.2	1.0	0.6
	10	2.4	2.0	1.2
	15	3.6	3.1	1.8
	20	4.8	4.1	2.4
	25	6.0	5.2	3.0
150 yards	5	2.0	1.7	1.0
	10	4.0	3.5	2.0
	15	6.0	5.2	3.0
	20	8.0	7.0	4.0
	25	10.0	8.7	5.0
200 yards	5	3.6	3.1	1.8
	10	7.2	6.3	3.6
	15	10.8	9.4	5.4
	20	14.4	13.5	7.2
	25	18.0	15.7	9.0

the screws and nuts from the maker and fit them to the rear mount yourself. Only two offhand groups were required for sighting-in.

As an indication of perfect zero, I fired two scores with U. S. Copperheads, getting 93 and 96, with twelve 10's and three 8's in the twenty shots. This M-34 Remington with Stoeger Peerless stock and Wee-Weaver scope makes a great little offhand rifle with any kind of ammunition for plinking, rapid-fire practice or such games as Splat. From standing it is not difficult to put all shots in a "ten-minute" bull at the rate of four seconds per shot. That means ten shots in forty seconds in a 1-inch bull at 30 feet or a 2½-inch bull at 25 yards, which ratio would call for the Military "A" target at 100 yards.

Friend Platzmann and his colleague, Mr. Tillman, were on the range when we arrived, the latter giving me the job of sighting-in his new Sears Roebuck target scope on a Savage Sporter. That \$10.00 scope sight had excellent cross hairs and a bright, clear field. It really is a marvel with click-type target mounts and everything required for good small-bore scor-

ing on game or N.R.A. targets. I do not know of a better value. After that initial trial it is easy to understand why the local Sears stores cannot keep a dozen outfits in stock for more than a couple of days.

Frank Pachmayr did an excellent job of mounting my old-style Noske scope sight on my M-54 Winchester. He did everything right, and in a very short time, considering the distance between the District of Columbia and California. The Pachmayr base fits both metal and wood on the left side of the receiver and is securely held with four screws. The scope is exactly over the center of bore and clears the receiver by only 3/16 inch. The drop from sight line to comb is less than two inches, and no cheek piece is necessary on that M-54 comb for a comfortable and secure support and steady holding. Pachmayr suited my eye-position exactly by just clearing the bolt handle with the eye piece of the Noske. He also tried it by shooting and zeroed the outfit at 100 yards, getting a 1½-inch group. My Noske mount is held by double locking-screws, which effectively prevent rocking or its development. The scope is so low

THE AMERICAN RIFLEMAN

the slide must be removed from the Lyman sight, but the new Noske mounts permit a still lower position of the instrument. This low position on the Winchester is made possible by the 6-inch eye-relief of the Noske scope, and the combination makes for efficiency or a coupling of the two essentials of all practical shooting—accuracy and speed.

DETACHABLE FRONT SIGHTS

BRONSON Sportsman's Supply of Salem, Ohio, make a neat detachable front sight with the bases shaped to fit different barrels of all diameters from $\frac{3}{4}$ -inch up. Some of these bases have male dovetails for cross-slotted muzzles. Others have a neat ramp base for screw attachment, the sample being about $\frac{3}{4}$ inch long and about $\frac{5}{16}$ inch high. The other base is shorter, rectangular in shape and about $\frac{5}{32}$ inch high. The heights quoted are measured from the top of the barrel, and indicate what is left on the muzzle of the gun when the target sight is removed, for the purpose of protection, packing or transporting convenience, etc.

The samples were fitted to Redfield Globe sights. The height of the aperture above the barrel in one of these was $\frac{13}{16}$ inch and in the other an even inch. The standard target sight is converted with a special base having two studs in the form of hardened screw heads and a long threaded locking screw in the middle between them. This locking screw has a large knurled head for convenient control and the arrangement is neat, because the large head is about two-thirds enclosed by the sight base. The two studs, of course, fit guide holes in the permanent-base part fastened to the barrel. This is an ideal arrangement for the purpose of insuring maximum accuracy of replacement after removal, as well as maximum convenience.

A POPE CLEANING ROD FOR FINE .22 BORES

SAM TEKULSKY has sent to me the best-designed and best-made cleaning rod I have seen for modern cleaning of our best present-day small-bore target rifles. The well-known Harry M. Pope is responsible, because none less than this famous barrel-maker made the original rod and supplied the specifications.

It is made of drill rod, 40 inches long, straight and true, polished smooth, and it is protected for carrying by a neat brass sheath in hollow-cylinder form with threaded caps on both ends. The rod is the type which will remain rigid and free

from kinks and surface grit to insure minimum wear to the bore. To further bore-protection the ends are hardened against bending or nicking, the hand end being made glass-hard nearly to the grasping grooves, and also the cleaning end, for an extent of three inches behind the patch-knob.

The rod is .201 inch in diameter and the tip or knob is .187 inch with a recess behind it to accommodate folds of the cleaning patch and to carry loosened fouling. Square, triangular or circular patches or absorbent cotton may be used with it. There are no provisions for employment of brass brushes or other threaded cleaning tips. However, the rod is straight to the end without bulge or handle, and the hardened butt-end can be used as a superior push tip for slugging or calibrating the bore or for punching out stuck cases, etc.

The unconventional lack of a handle and swivel may seem queer, but this design has advantages which fully offset its disadvantages. It makes a stronger and safer rod, because there are no threads or other joints. It can be made cheaper in this simple form and it is; even with best possible workmanship and material. This Pope rod is listed at \$1.25, plus 50¢ for the brass protection-sheath, if this is wanted for storing or carrying the rod. Modern rifles have high combs for scope use and to clear them it is often necessary to remove the rod handle in order to clean from the breech. When this is done and a hard steel rod is grasped directly, the course of the patch through the bore can be distinctly felt by the fingers and can be properly controlled and guided without need of automatic swivels or revolving joints in the handle or tip.

This direct control appreciably enhances sense of feel which makes bore cleaning more certain and safer, because comparatively rough spots or tight places can be detected and there is less danger of getting patches wedged too tight or stuck. Since in cleaning fine bores excessive force is always undesirable, the handle may well be removed. In doing this frequently I find many of my rods are a bit short, and consequently I can greatly appreciate the additional length which this Pope rod allows for cleaning from behind the butt and over the high comb of any properly stocked .22-caliber rifle.

This new rod is a four-star item which I am glad to recommend without reservation to all owners of accurate .22 bores. I would also suggest the additional investment of 50¢ for the brass case to protect the rod in shop or car, and the rifle when both are carried in the same gun case. In my opinion, the material, the design, the workmanship and the price all are right. It is made by the Blair Tool & Machine Corporation, College Point, N. Y.

HATCHER'S COMPLETE TEXTBOOK

THE 875-page "Textbook of Firearms Investigation, Identification and Evidence" in one volume (342 pages) with Textbooks of Pistols and Revolvers (533 pages) has already been reviewed, but I think our friend Hatcher has done such an excellent job of it I want to recommend it with my personal opinion in the Dope Bag. Rather than purchasing several books on handguns, I would suggest buying this complete volume at \$7.50 and using it as a textbook and reference work. It is published by The Small Arms Technical Publishing Company, Marines, Onslow County, North Carolina.

The book is a bulky one with a ponderous, awkward title, and the publishers have, with some justification, been criticized for combining two books in a single high-price volume. However, I am glad this was done, because the first book is as essentially a part of the second book as the latter is of the former, and the two should not be separated, in my humble opinion. All the first book is of interest to shooters, much of it of intense interest, and most of its material is of as great practical help to students of shooting as that found in the second book. While this part of the volume is ostensibly written for the student of forensic ballistics, the average gun lover will probably fail to enthuse over only three of its eleven chapters or fail to benefit from but one 18-page chapter, that on the "Digest of Court Decisions on Firearms Identifications" and, possibly, the 39-page chapter on "Instruments and Equipment." All the others are crammed with technical meat for shooters interested in the "whys," "wherefores" and "howcomes" of shooting. It should satisfy such shooters and thus save gun editors much superfluous work.

While to me Major Julian S. Hatcher's name on anything is sufficient recommendation, I did not become particularly enthusiastic about his 395-page book on "Pistols and Revolvers" published by the same firm in 1927. In that book the author neglected many interesting phases of shooting through sketchy treatment and even by omission.

In the new book (Part II of the complete volume) he has let himself out, as it were, spilling all he knows of his subject, and with a result highly gratifying to the reader. Those obscure little facts and figures about guns and cartridges which are commonly considered too trivial for mention but which are really significant and important to the reader, will be found in the new edition which has been enlarged by nearly 140 pages, in rounding out the original treatment and bringing all the old data up to date. Major Hatcher is at his best in analysis and explanation of some baffling ballistic problem and this

book (dealing with interior and exterior ballistics) makes it all clear to any layman who is sufficiently interested to search out and read Hatcher's excellent exposition on any bothersome phase.

NEATER KEEPERS, AND CHEAPER

RECENTLY light, small sling keepers of soft rubber have been received, which appear to do their job effectively and unobtrusively on Army Leather slings and yet cost less than a quarter of a dollar. These are merely neat little wedges of soft rubber. They are wedged between the straps immediately behind the regular leather keeper and their soft rubber surfaces really hold in direct contact with the ungrained leather.

The first sample came from Emil W. Ihrcke, 6230 North Oakley Avenue, Chicago, Illinois. It is of white rubber and the wedge measures about $\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ inches. His price will be as low as cost permits, not yet determined, but not to exceed 15 cents. The $\frac{3}{4}$ " width adapts it for the narrowest sporting slings too.

The second sample is from G. Norman Albree, 110 Milk Street, Boston, Massachusetts. He calls it "Your Keeper's Keeper." It is of red rubber and measures roughly $\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$ inches, being adapted for $1\frac{1}{4}$ " slings. This is a more advanced design, being equipped with brass legs or loops through which the top and bottom straps of the Army sling pass to keep it as a permanent part of the sling. Once installed, this one may be forgotten and will not be noticed or in the way, but always there when needed. This adapts it for employment in rapid-fire practice and even on the "arm-wrap" or "hasty sling." Mr. Albree's price is 20 cents postpaid on drop orders, or less with orders for his score book.

ON GETTING A STOEGER STOCK

AS REVIEWED last month I obtained a plain grade Peerless stock from A. F. Stoeger, Inc., for my M-34 Remington. It fitted perfectly and was attached and ready to shoot in five minutes' time. I also obtained sample Peerless stocks for the M-1903 Springfield and M-1917 rifles. The latter was tried on the gun and required practically no fitting. It changed the zero about 8 minutes of angle with M1 Service loads as compared with the home-made stock, but this new zero remained constant and the accuracy of gun and holding with the Stoeger stock was fully up to the highest standard previously established with that barrel and load. The

only fitting required was a slight freeing of the end of the tang cut on top to avoid chipping from recoil.

Since then I have obtained a higher grade Peerless stock for my Krag, and experienced so much difficulty in fitting it to my rifle that I would much prefer sending the gun to the factory for direct fitting. This is the thing to do, unless one is equipped with inletting tools or has access to such tools or the services of a local gunsmith. As it was, I had no bench or tools and had to work slowly with a Nicholson half-round file which served as a chisel, gouge and wood rasp. The Stoeger inletting was carefully done and looked all right as compared with the arsenal job, but it would not accept either barrel or action of my rifle. As a result, I had three patience-trying sessions with the thing, finally sitting up all night in order to complete it in time for the shooting and this review. At that, I consider it well worth the effort.

It is the most beautiful stock I have seen on a Krag in lines, in dimensions, in color, grain and embellishments. It is an excellent piece of French walnut set off with a black forestock tip, P. G. cap and a good shotgun-type buttplate. It is neatly and sharply checkered over both grips, has a good comb with cheekpiece and grasping dimensions which make it feel full and secure in both hands but leave a slender and graceful appearance to please the eye. I did not think it possible to give such racy lines to the clumsy-looking Krag carbine. The secret is length and taper, forestock extending $18\frac{1}{2}$ inches from the trigger and the butt, $14\frac{3}{8}$ inches in the opposite direction. The finish is oil which will constantly improve with rubbing. The general tone is a medium-light combination of yellow, brown and red which forms an effective background for the dark-brown grain and black trimming, very pleasing to the eye. Its general beauty makes it conspicuous in the gun rack, in spite of my bungling jack-knife job of fitting the stock.

It is equally satisfactory in performance. The handling qualities leave little to be desired. The drop from the bore line is only $1\frac{1}{16}$ inches at the heel and $\frac{1}{2}$ inch at the point of comb, which latter is neatly undercut. The comb is full behind the shoulder, and with the cheekpiece it affords a secure and comfortable support to the cheek, even when a scope sight is employed. A Sedgley scope rib holds a 20-inch Malcolm No. 1 scope in Lyman 5A target mounts, all of which equipment harmonizes with the long, slender, graceful lines of the Stoeger stock. Also the drop from scope line of sight to the comb is just 2 inches.

I tied the forestock to barrel with an inside barrel band, which is a neat but gen-

erally unfavorable method, and I was afraid I had detracted from the accuracy of this Krag. However, shooting established the contrary, because our 100-yard groups with familiar loads were, if anything, better than before. With the Zip chamber and loads I got a $2\frac{1}{2}$ " group at 50 yards. With the new Bond-Loverin gas-check bullet and 12 grains No. 80 I got a $2\frac{3}{4}$ " group at 100 yards, all but one shot measuring $1\frac{3}{8}$ inches. Friend Barr, who loaded the ammunition, tried 8 grains No. 80 with the same bullet in this restocked Krag and got his entire group in $1\frac{1}{8}$ inches at 100 yards. The old Krag carbine is now heavier to carry but much improved for steady holding in all off-hand positions. With King ramp sight, scope and sling the dense-grain Stoeger stock brings the weight to nearly $9\frac{1}{2}$ pounds.

From my recent experiences with several grades, types and models of these Stoeger Peerless stocks, I would say they are all satisfactory and excellent values, but more so in the higher-price grades. However, it is my opinion, the purchaser must expect to do himself or to pay for from \$3.00 to \$10.00 extra gunsmith work in getting this Stoeger equipment properly fitted to his rifle or to suit his own ideas, or individual requirements.

ORTHOPTIC GADGETS

DR. NORMAN S. ESSIG, 1700 Locust Street, Philadelphia, Pennsylvania, has patented an orthoptic gadget to slip over the lens of spectacles or shooting glasses. It is merely a fold of spring metal designed so that it can be placed in any desired position to suit the stance of pistol shooters. There are three small apertures of different sizes, which can be swung into alignment at will. The whole thing is small enough to be left on the lens without annoyance or interference to vision while off the firing line.

It is about the size of the Wright Eyesight Compensator made by W. A. Wright, 5625 Lifur Avenue, Los Angeles, California. The best and most elaborate (and most expensive) device on the market for this purpose are the Universal Aperture Spectacles marketed by H. P. Jones, 469 Main Street, Bennington, Vermont. There are any number of such orthoptic gadgets in use among pistol shooters. Some use opticians' shields of opaque black celluloid with the aperture drilled, in size and position, to suit the individual. There is also the common teaspoon with a 1-mm. hole drilled in the bowl and the shank thrust under the sweat band of hat or cap to hold it in position over the sighting eye.

Dr. Shelby W. Wishart of Evansville, Indiana, comes through with the suggestion of using small discs of black paper or opaque court plaster and of punching holes in them with needles, etc., before pasting them in proper position on the spectacle lens or on an extra lens of plain glass, or even an extra pair of cheap glasses. The advantage of his idea is that the application is inexpensive and perfectly adaptable to exactly suit any shooter's requirements of position and size.

The purpose, of course, of all these orthoptic devices is to place a shield against annoying side rays before the eye with a small aperture through which to sharpen definition and increase the depth of focus. In the case of old eyes of more or less fixed focus these orthoptic gadgets are very helpful, especially to pistol shooters of 40 years or more, because they tend to clear up and define front and rear sights at the same time and permit more accurate aim. The effect is analogous to that obtained by stopping down the shutter of a camera.

NEW WINCHESTER ITEMS

THE M-54 is now available in standard or super grade for saddle use and mountain hunting equipped with 20-inch barrel, giving slightly reduced weight and greater carrying convenience. The front sight is equipped with a slip-over steel cover or protector. The rear sight is either open style or 48W receiver type, according to choice. The 20-inch barrel is better in .270 Winchester than in .30-'06 caliber in my opinion. The .30-caliber 20-inch barrel would lose too much velocity and radius and accuracy and acquire too much blast and recoil to be desirable, but plenty of such rifles are in use by good fellows, who think they must have them.

There is now a single-shot adapter for the M-52 rifle. It replaces the magazine and looks like it, except for the bright-finish loading tray or trough on top. It makes single loading from the block imperative, as well as more convenient. It costs the same as an extra magazine.

The new target stock for the M-52 which was supplied on special order is now a standard on this model. It is a real improvement with a larger butt, and less drop. The new dimensions are: drop, 1-9/16 x 2 inches; length of pull, 13 3/4 inches; buttplate, 5 1/4 x 1 3/4 inches. The new buttplate is slightly curved and has a pitch down of 3 inches. The trigger mechanism has also been improved, probably by changing the sear angle, so that a light 3-pound pull may be uniformly maintained. New trigger parts for M-52 rifles already issued can be purchased from

Winchester and installed at home. This is a much-needed improvement in a splendid target rifle otherwise well-nigh perfect. It would be even more improved in both trigger and lock departments by having the Hart Arms Company, Cleveland, Ohio, install their speed action.

The M-63 self-loading rifle is now obtainable on request with a 23-inch barrel in place of the standard 20-inch barrel. Although as formerly issued this efficient little "spit-fire" is as handy as a glorified handgun, the new optional length will improve the holding, sighting and shooting qualities enough to recommend its choice. Too bad that meager 11-inch forestock could not be similarly lengthened, but there will be plenty of room for the left hand on that longer barrel without danger of covering the muzzle.

Major Hession showed me an M-54 target stock which, with a heavier barrel, will bring it to National Match proportions for match shooting. The new stock has a full beaver-tail forestock, and a good straight full-dimensioned pistol-grip buttstock on the order of the late Springfield Sporter with plenty of wood to permit individual fitting. The Winchester plans call for three different barrel weights to go with the new target stock. These are standard M-54 weight, a heavier medium weight, and a heavy Snipers weight, which latter is intended to supplant the Model-T Springfield for such long-range any-gun matches as the Wimbledon at Camp Perry.

Winchester .22 Super-Speed ammunition, in solid or hollow-point style, is now made with plain lead greased bullets. The release states it is for those shooters "who prefer the long-established greased bullet," but the real reason is the consistent fight of gun editors against dry bullets because they wear the bore unduly and often cause bad cases of fouling, corrosion and inaccuracy. Western C. Co. has recognized this fact and is now using wax on their small-bore Lubaloy-coated Super-X bullets. Peters C. Co. have long realized this and licked it by applying their "Invisible" Filmkote lubricant to their erstwhile dry-plated .22-caliber bullets. Almost from the beginning the U. S. C. Co. supplied their Copperhead bullets lubricated, as well as ungreased, and Remington introduced .22 Hi-Speed with greased lead bullets and have regularly duplicated every dry load with a greased load since.

A FINGER-REST BLOCK

ROBERT M. McFEETER, 631 Eagle Rock Avenue, West Orange, New Jersey, sent in a block of black composition to fill the high curve behind the

trigger guard of the Colt Officers' Model. It affords a finger support without altering the grip dimensions. It is held by flat metal strips under the regular walnut stocks. I tried it by reshaping to fit the S. & W. M. & P. revolver, and it seemed to help the hold appreciably by taking the weight of the gun off the trigger finger. It is made for all large-frame Colts in two sizes, a more shallow one being needed to leave more grip-space for very large hands.

MORE DOPE ON THE .22-4000

ON MAY 14, George Schnerring wrote about the Sedgley-Schnerring .22-4000 caliber and enclosed a 100-yard group which he fired that day. It measures 3/8-inch and is interesting, because two different high-velocity loads were used in forming the one group. Behind the 56-grain bullet he used 38 grains weight of I.M.R. powder No. 3031 and behind the 45-grain Hornet bullet he used 40.5 grains of the same powder, getting the same impact and equal accuracy.

One thing I like about this particular Sedgley-Schnerring combination is that they are striving to keep pressures down around 50,000 pounds even at high velocity. In the group-shooting mentioned above, the first load chronographed 3700 f.-s. with the 56-grain bullet and registered only 48,000 pounds in Mr. Schnerring's pressure gun. He says the other load was around 3750 f.-s. and the same pressure. By modifying the 56-grain bullet he has succeeded in reducing pressures by 7000 pounds and hopes to achieve 4000 f.-s. and 50,000 pounds with a slower-burning powder.

Mr. Schnerring says he always gets normal impact from a cold barrel and never fires a preliminary group to warm the gun as it is unnecessary in this .22-4000 caliber. Starting with a cold barrel he has made 3/4-inch groups at 100 yards.

Questions and Answers

ONLY two weeks out of each month are devoted to personally answering Dope Bag letters by Mr. Ness, the Editor of the Dope Bag. The other two weeks of each month are taken up by field work and editorial work. This accounts for the unavoidable delay in replying to Dope Bag letters.

Write or type your questions intended for this department on separate paper plainly marked for the Dope Bag. PRINT YOUR NAME AND ADDRESS ON EACH LETTER. LEGIBLE NAME AND CLEAR ADDRESS ARE REQUIRED FOR REPLY. YOUR COOPERATION WILL BE APPRECIATED.

A FEW POINTS OF CONTENTION

SOMETIMES we are unwittingly guilty of careless speech or unfortunate choice of words leading to ambiguity or distortion of the meaning, and sometimes we have to be so abrupt the true sense is lost or changed through incompleteness. This is unfortunate, but it is unavoidable when working under pressure. Few members realize the great amount of time which goes into our tests to get accurate dope on old and new equipment. One short item in the Dope Bag which took but few minutes for the mere writing may easily have required three days of preparatory work in the form of shop and field experience. This is often true of insignificantly small paragraphs, or even of simple-seeming sentences. One short article recently published in *THE AMERICAN RIFLEMAN* took six solid weeks of our time before we could set down a word. Any mistakes which affect important facts must be corrected, and we appreciate having any of them called to our attention.

On Melting Points

The commonly-accepted theory, as expressed by J. R. Mattern, is that "a mixture of two or more metals melts at a lower temperature than the average of the two." In keeping with this theory the careless statement which often appears in print is "we raise the melting point of our lead by adding tin or antimony to our bullet metal." Tin melts at 450° F., lead at 621° F., and antimony at about 1160° F. Thus tin with its lower melting point could not possibly raise the melting point of lead or of any bullet mixture. Like tin, antimony merely hardens the lead bullet for better resistance to stripping and deformation when driven at relatively high velocities in bores rifled with a quick twist. To get the actual melting points of bullet-metal alloys made up of antimony and lead we called the Bureau of Standards, and here are the figures:

	Melting Point
5% antimony	570° F.
10% antimony	480° F.
30% antimony	740° F.

Drilling the Service Bullet

The old 150-grain Service bullet had a flat base and the full diameter of the lead core was exposed. Drilling the point would sometimes result in squirting the soft core out of the jacket, and leaving the latter lodged in the bore, where it would serve as an obstruction to the bullet of the following shot.

The M1 Service bullet is much tougher and it has a harder core, which is necessary on account of the taper-shape of the base, this 173-grain bullet having a boat tail. While the base is not covered by the jacket, the core is protected by the shape of the base as only a portion of its full diameter is exposed. The gas pressure tends to squeeze in the taper base but the jacket holds the core instead of letting it go out through any small opening drilled in the point of this bullet.

Safe Loads for the M-1895

The Model-1895 Winchester in .30-'06 caliber is safe enough when in original condition, with any standard commercial or military load in that caliber. This holds true for any modern high-velocity sporting loads of any standard American make, including the Remington Hi-Speed and Express loads and the Peters 225-grain-Belted load. While I visited Merton Robinson's test range at Winchester

I saw Western and Winchester make of 180-grain high-velocity ammunition fired rapidly in one of these rifles for functioning and learned this rifle had been continually so used. However, it is advisable to use more moderate loads in these rifles to guard against any undue stretching of cases and action and to insure against the development of any extraction difficulties. Many of these rifles have been used for years with the heaviest .30-'06 loads without developing that trouble or any other. The only unsafe practice is to use the wrong-caliber ammunition in these rifles or in any other arm. Practically all M-1895 Winchester rifles which have been blown up had been improperly loaded with over-size bullets of which the 8-mm. Mauser was the principal offender.

FOR PARKERIZING SERVICE

ANY member who has a barrel or action he wants Parkerized should contact any one of the following licensed firms who are prepared to give complete metal finishing, including Parkerizing service, which is licensed by the originators, The Parker Rust-Proof Company of Detroit, Michigan:

Baltimore, Md.	Federal Tin Company, Inc., Parkerizing Dept., Charles and Barre Sts.
Boston, Mass.	Rust-Proofing & Metal Finishing Corp., Commercial Ave. & Binney St., Cambridge A.
Buffalo, N. Y.	Parker Rust-Proof Co. of Buffalo, Inc., 1095 Niagara St.
Canton, O.	G. C. Reiter.
Chicago, Ill.	Western Rust-Proof Co., 2139 Walnut St.
Cincinnati, O.	The Stolle Corporation, 227-241 W. McMicken.
Cleveland, O.	Parker Rust-Proof Co. of Cleveland, 2617 E. 76th St.
Dayton, O.	Dayton Rust-Proofing Co., 736 N. Main St.
Detroit, Mich.	2177 East Milwaukee Ave.
Evansville, Ind.	Evansville Plating Works.
Kansas City, Mo.	Bar Rusto Plating Corp., 1808 Locust St.
Los Angeles, Calif.	Los Angeles Rust-Proofing Company, 8141 So. Alameda St.
Louisville, Ky.	Republic Welding Co., Inc., 305 College St.
New York	Pyrene Manufacturing Co., 560 Belmont Ave., Newark, N. J.
Philadelphia, Pa.	Philadelphia Rust-Proof Co., 3229 Frankford Ave.
Pittsburgh, Pa.	Pittsburgh Electro Galvanizing Co., 5th St. and Penna. R. R. Sharpsburg.
Rockford, Ill.	Barber-Colman Company.
St. Louis, Mo.	Mid-West Rust-Proof Co., 3665-7 Market St.
San Francisco, Calif.	Best & Company, 2006 Clement Ave., Alameda.
Toronto, Ont.	Fairgrieve & Son, 50 Dovercourt Road.
Torrington, Conn.	Turner & Seymour Company, Parkerizing Department.
Waynesboro, Pa.	Landis Engineering & Mfg. Co., Inc.

Affiliated Foreign Companies:

London, England	The Pyrene Company, Limited, Great West Road, Brentford.
Paris, France	Societe Continentale Parker, 42 Rue Chance-Milly, Clichy (Seine).
Frankfurt, Germany	Metallgesellschaft, A. G. Bockenheimer Anlage 45.
Sydney, Australia	Parkerizing, Bonderizing, Rust-proofing, Ltd., O'Brien House, 56-58 Young St.
Tokyo, Japan	Nihon Parkerizing Kabushiki Kaisha, No. 6 Mitsubiski 12 Bldg., Marunouchi, Kojimachi-Ku.

A CHEAP DECAPPER

A K. & D. bench key works fine to punch the primers out of Hornet empties; just fits the neck right to go on down and center. A set of three of these keys, which could be cut in two and make six punches, cost \$1.00 per set. Perhaps they could be bought in singles. Get these through any jeweler or material house.—D. R. YOHIO.

SOME .35 WINCHESTER LOADS

I JUST read a letter in the March issue of the *RIFLEMAN*, signed H. J. S., about converting a Krag rifle to a .35 Winchester. He speaks well of this shell as a game-getter. The following might be of some interest to him. My rifle is a heavy action, single-shot Winchester with the Winchester Model '95 barrel, set triggers and is stocked for scope.

Following is a list of loads with HiVel No. 2 tabulated for me by Mr. L. C. Weldin of the Hercules Experiment Station, Kenvil, New Jersey. I might mention that I have tried each of these loads in my scope-equipped rifle and found them, without exception, very accurate:

Gr.	M. V.	Pressure	Depth
34	1680 f.-s.	22,200	.333
47	2345 f.-s.	45,000	.333

(The above is for 250-gr. S. P.)

Gr.	M. V.	Pressure	Depth
36	1900 f.-s.	22,200	.288
49	2520 f.-s.	45,000	.288

(The above is for 200-gr. Remington S. P. or H. P.)

Gr.	M. V.	Pressure	Depth
47.5	2410 f.-s.	45,000	.329

(The above is for 220-gr. W. T. C., Cavity Point)

For comparison, the factory loads are: 250-gr. bullet, 2200 f.-s. muzzle velocity and 45,000 pounds pressure. It will be observed that none of these loads exceed the regular factory pressures.

The 220-gr. W. T. C. bullet, in my gun, is the best of the lot and I have made many two-inch groups at one hundred yards, using a sand-bag rest. This compares with the best of the scope-equipped Springfields on our range.

Last season I used the 250-gr. S. P. bullet at 2345 f.-s. velocity on my deer hunt and, contrary to the statement of H. J. S., it spoiled the entire shoulder of a 150-pound deer for me.—L. C. L.

NEEDS A MULTIPLE MOUNT

I AM writing requesting your advice on a telescope sight. I want a hunting scope which I can use interchangeably on three Model-54 Winchesters, namely, a .30-'06, .22 Hornet, and a special 54 Winchester made by Sedgley for a .22 Long Rifle. When the scope is mounted I want it so either the telescope or iron sights may be used without altering or changing the scope.—H. E. T.

Answer: For your purpose there is only one thing to do and I can see no choice in the matter. Get one of the excellent small Zeiss scopes of Hensoldt or Zeiss make and have it mounted with a Hart Multiple Mount on your three bolt-action rifles. The base of these mounts is fully adjustable, so that you can leave them adjusted on each gun and then shift the scope at will. You can also have it mounted high enough to clear the metallic sights on all guns, and all that is required is to have the standard height which clears the Winchester bolt lever. By all means, get quotations from the Hart Arms Company, Cleveland, Ohio. I would also suggest that you have them fitted at the makers.

TO DUPLICATE SERVICE LOAD

OUR club has been issued some 1934 Caliber .30-'06 ammunition and I would like to handload my own to correspond as near as possible. Can you tell me what loads to use to match this ammunition which is marked "Cal. 30 M1, powder I. M. R. 17 army lot 1378." I have on hand Pyro, duPont No. 17½, Hercules HiVel and No. 2400, and 172-grain 9° Service bullets with D. C. M. cases.—J. A. R.

Answer: Your 1934 Service ammunition loaded with Army Lot No. 1378 of I. M. R. powder No. 17 was loaded and tested for one month between September 5th and October 5th, 1934. The charges ran from 47.3 to 47.8 grains weight and the pressures ranged from slightly above 45,000 pounds to slightly under 47,000 pounds. The average muzzle velocity was 2660 f.-s. and the average mean radius at 600 yards was 3.6 inches, which would mean an average group size, center to center, of extreme shots measuring 11 inches, at 600 yards from machine rest.

To duplicate this muzzle velocity with your powder and Frankford Arsenal No. 70 primers use 45 grains .30-caliber Pyro D. G., 46.0 grains Hercules HiVel No. 2, or 48.5 grains weight I. M. R. powder No. 17½, all, of course, behind the 173-grain M1 Service bullet, using a seating depth of .475 inch or an overall cartridge length of 3.34 inches. With modern noncorrosive primers reduce the above approximately 5%.

ON VISION-CORRECTION BY MAIL

ON PAGE 50 OF THE RIFLEMAN M. A. B. offers a spectacle suggestion for oldsters. That interests me, but I don't know what number of reading glasses I use for reading. I live a good many miles from an oculist and would like to get glasses for shooting without making a special trip. I should very much appreciate any help you can give me to get these glasses.—F.C.H.

Answer: Relative to your eyes and the inconvenience of seeing a good optometrist, I would say that what you hope to do is impractical, if not impossible. You do not need an oculist, unless you have cause to

Utterly New Type SHOOTING COAT

At Amazing Low Price

BIGGEST shooting coat, glove, and leather gun case values ever offered at the most amazing prices in history. Utterly new and different designs. Roomy, light weight.

FREE

Now! Get complete details, sensational prices. Attractive literature free. Write today!

10-X PRODUCTS
Des Moines, Iowa

rifleman-designed and rifleman-manufactured. Highly recommended by Mr. New, Phil Sharpe, and other authorities as the best shooting coat. If your dealer can't supply you with the 10-X shooting coat, write today for complete details. 10-X PRODUCTS, Des Moines, Iowa.

Rifleman's Coat
Skeet and Trap Coat
Rifleman's Glove
Leather Gun Case

believe that your eyes are diseased. However, in getting proper shooting glasses, you do very much need the services of the best optometrist you can find. Finally, you deal with the optician, who merely fills the prescription, or furnishes the lens found to be needed by the optometrist to correct your trouble, and you can deal with the optician safely by mail. To try the glasses, as suggested in the letter by one "M. A. B.," which you mention, it would be necessary to have a large stock on hand and try them one-by-one very patiently. This, of course, would not be nearly as good as having your eyes refracted or thoroughly examined by an optometrist. The optometrist merely studies the optical features for correction of vision, and not eye diseases, which call for the services of an oculist, who is an eye-disease specialist.

I can tell you of one rating of vision, or that under the Snellen Scale for classifying the efficiency and visual abilities. A minute-of-angle mark or spot is seen (¼ inch) at 25 yards, and a 3-minute letter is read in good light or in sharp contrast (white on black) and an eye which meets this is called a "20-20," while a poorer one would be "20-25," and a better one "20-15," etc. In other words, the 20-20 eye, or vision, is capable of reading a 3-minute-of-angle letter of the correct relative size for the testing distance. In other words, at 20 feet the 20-foot relative size of letter was read accurately in the test. Such an eye is given a 100% efficiency rating and a 1-minute of angle of vision, while a 20-40 eye is given an 83.6 rating in percentage and a minute-of-angle vision of 2 minutes. Thus eyes under the Snellen System are given ratings from 20-15 to 20-800.

In addition to being either nearsighted (myopic) or farsighted as an hyperope, or probably having inflexible "old" vision as a presbyope, you may have some form of astigmatism, which is an eye defect corrected only by glasses, and which would have to be included in the corrective prescription prepared after test for your optician by your optometrist. To find such errors caused by astigmatism is a further advantage of visiting the optometrist for a thorough examination.

About all you could hope to do would be to make the best of things as they are when dealing at long range, and there is only one thing that I could recommend, and that is to send to H. P. Jones, Bennington, Vermont (469 Main Street), for a pair of his excellent orthoptic spectacles. These are fitted in an adjustable manner in a very good pair of spectacle frames, which you could later use in conjunction with your lenses, should they be required. These orthoptic spectacles cost \$5.00, and would be an excellent investment, which would not be lost when you later have lenses made, as they can be used together in the same frame with the prescription lenses,

GUNSLICK MAKES ACTIONS VELVET SMOOTH!

Try a little GUNSLICK on any one of your guns—rifle, shotgun, pistol or revolver. You will be amazed at the velvet smoothness that results—and that smoothness lasts.

GUNSLICK is entirely different from oil. It is Anhydrous Graphite. It does not rub off, evaporate or leave a gummy film. Instead, it builds up a dead smooth lubricating surface on working parts that eliminates friction—and—it lasts!

Ask your dealer for GUNSLICK or send 25c today for a good-sized tube.

OUTERS LABORATORIES

ONALASKA, Wisc.

Department "R"

BETTER MARKSMANSHIP

GUARANTEED!



The Bair Revolver Manual positively will improve your shooting. We guarantee that.

Written in concise everyday language, this new book is a complete training course in revolver shooting. Over 38 illustrations in its 55 pages. Grease proof cover; pocket size.

If careful study of this Manual does not improve your revolver marksmanship within 15 days, return it to us and we will refund your money. Price 50 cents postpaid—stamps accepted.

Those who use the .45 service pistol should also order a copy of Colonel MacNab's "Pistol Training Course." Same price. Same guarantee. Send \$1.00 for both Manuals. We pay the postage.

NATIONAL RIFLE ASSOCIATION
Barr Bldg., Washington, D. C.

and would save you the cost of the frames later, and at the same time would enable you to experiment with the orthoptic provision of the Universal Aperture Spectacles which I recommend.

Another thing that is possible is to use a prescription lens in your peep sight, after you have gotten the prescription from your optometrist. The Watson Gun Sight Company, 62 Dundas Street, Toronto, Canada, and A. G. Parker & Co., Ltd., Whittall Street, Birmingham, England, furnish eye cups for peep sights with lens holders and they will furnish the lens if you will furnish the prescription. Some shooters use these and leave their glasses at home, or in their shooting case when firing metallic sight matches. It is permitted under N.R.A. rules to use such prescription lenses in the rear peep sight in place

Don't Read This—Unless

Don't read this advertisement unless you have a warm spot in your heart for the old Kentucky rifle, the rifle that changed the whole course of world history by making it possible to settle and set free a new continent.

Legends regarding the famous old Kentucky have drifted out of the dusty past; inaccuracies have passed for facts. Few writers have given more than a passing word to a weapon which deserves a lasting place in history. That is why this book, "The Kentucky Rifle," fills a long-felt need. Written by Captain John Dillin. It presents data collected during ten years of research by the author and his co-workers. It contains 250 pages, including 126 full-page illustrations.

To perpetuate this unique volume we had the last 250 copies of the book bound in quality antique grain fabricoid, wine colored; and stamped each copy with a true impression of an old Kentucky (see cut). All but 96 copies have been sold and the book positively will not be reprinted. The price of the limited & luxe edition is only \$7.50. Your check for that amount, if mailed promptly, will bring you a copy of this vanishing volume of a vanished rifle.

National Rifle Association
816 Barr Bldg. Washington, D. C.

WINCHESTER MODEL 21
(Brand New)

The World's Biggest Double Barrel Shotgun Value Today as illustrated. Our stock is limited. 12 and 20 gauge, double trigger only. STANDARD GRADE, Regular Price . . . \$73.40

SAVAGE MODEL No. 40 Super Sporter
(Brand New)

Hi-Pressure steel barrel, with raised ramp front sight. Latest design walnut stock, oil finish, pistol grip, 5-shot magazine, in calibers, .30-'06; .300 and 30/30.

REGULAR PRICE . . . \$40.00
Special Today . . . \$28.75

SELECTIVE EJECTORS
Regular Price . . . \$87.05
Special . . . \$41.45

He who hesitates is lost on this deal (\$2 deposit on C.O.D.'s)

56 Only! Brand New Winchester Rifle, 22 Auto. 1803 Model
Regular \$33.40. "EXTRA SPECIAL" . . . **\$21.45**

FREE 1935 catalog or cartridge list.
HUDSON SPORTING GOODS CO.
R-52 Warren St. New York City

The ELUSIVE TEN

TARGET SHOOTING

A ray of hope to the discouraged—A clever guide for beginners—Startlingly different to the experts—

A Pistol Shooting Manual covering a new and successful method.

Prominent exponents say of it: "It is the law and the prophets"; "Just what the doctor ordered"; "The best pistol manual in my library of gun books." Handsomely bound. Pocket size. Illustrated. 84 pages. Artcraft.

Send ONE DOLLAR to
William Reichenbach, Wantagh, N. Y.

King Luminous Red Bead or Post Sight with Reflectors

Adapted to All Rifles having Standard Barrel slots. Red, Gold or "Kinggold" white beads or posts optional. The BEST Hunting or Target shooting combination ever placed on a Firearm.

Price with 1/16" or 5/64" Beads or .030 Post. \$2.99
Price with Detachable Hood * Beads or Post. \$3.99
Ramp Reflectors with any bead or post for all Revolvers or Rifles. \$5.00 fitted. Send stamp for circular "R."

D. W. KING GUN SIGHT CO.
555 Howard St., San Francisco, Calif.

O. H. ELLIOTT SPECIALIST IN AMMUNITION
SOUTH HAVEN, MICHIGAN

Specializing in Carefully Made Custom Loads for Match Shooters who appreciate those extra points. Also, selected sporting cartridges of greater effectiveness and accuracy. .22 Hornet to .505 Gibbs.

★ Write me your troubles ★

Count the shooters using CUTTS COMPENSATORS

Thousands of shooters on the Skeet fields or at the traps . . . practically all of them high up in the average column . . . many at the top with state, zone or national championships. Read the interesting folder illustrated with spark photographs showing the remarkable effect of the Compensator on the shot column. Sent free on request.

THE LYMAN GUN SIGHT CORP.
90 West Street Middlefield, Conn.

THE NEW GRIP GADGET

For All Medium and Large Size Colts and S. & W. No. 1 for small and average hands. No. 2 for large hands. Installed in 30 seconds with screwdriver. Money Refunded if Not Satisfied.

ROBERT J. McFEETER
631 Eagle Rock Ave., West Orange, New Jersey

\$1.00 Postpaid

of spectacles, or in conjunction with spectacles, and they qualify fully for the metallic sight matches, as long as there is no glass in the front sight and no other set of glass forward of the rear sight.

BELITTLES REAL RIFLE WORK

I'VE read a good deal on pistol shooting, have shot most good American makes and sizes of pistols. I do not seem to overcome an excessive trembling of arm and pistol when firing. Is that an affliction of all handgunners?

I have read most all writers insist on scope, gunning, and expensive rifles with Lyman micrometer rear sight. I'm using my second Savage Sporter 23-AA, the first was the 23-A. Both my Savage, and my Springfield are mostly carried in a saddle scabbard, sometimes strapped to the spare tire on my car. The bolt handle makes enough bulge without a "mike" rear sight.

I have welded a peep on the Krag bolt, similar to the Rice sight, and a solid, hard-to-adjust aperture sight on the Savage, similar to the Lyman 55. I am not even a good shot, yet I score at least 40% hits on jack rabbits, hawks, and ground squirrels up to 300 yards, using 22 L.R. H.P. Peters. Generally, I shoot with a muzzle rest on the saddle, or on the windshield of my car.

I would like to know if I have an exceptional rifle, or do these writers get paid by the makers of scope sights? I am 32 years old, wear glasses, and I know some young fellows who can outshoot me. I never shot on a rifle range, or punched more than half-a-dozen paper targets, and, I have never shot in competition.

After reading over this it looks like a terrible "beef," but it isn't meant that way,

BETTER STOCKS
For S & W and Colt Revolvers

Hand fitting stocks of finest grain Butt Log Walnut that improve both the looks and the shooting of these guns.

W. F. ROPER
458 Bridge Street, Springfield, Mass.

LOAD YOUR OWN and SAVE MONEY!

Easy! Fun, too! This book shows how. 120 pages. 1000 modern center fire loads. Ballistic tables. Savings let you do more shooting. Send 25c to Belding & Mull, Gen. Mfg. Freyberger, Successor, 830 Osceola Road, Phillipsburg, Pa. Hand loading specialists.

BELDING & MULL RELOADING TOOLS

because in offhand shooting I can't hit a barn, with a small-bore. I am somewhat better with the .30 caliber, because a buck, at 100 to 500 yards, is a large target. I had my latest .22-caliber Savage 15 months, and the bead is nearly all worn off the front sight from dragging in and out of the scabbard, so you can see my guns get plenty of use.

Is there a rifle club anywhere near Orland?

The bolt makes an annoying bulge right under the knee, but as I shoot left handed, the bolt does not throw burned powder in my eyes as do some of the slide and lever-action "cannons."—P.F.

Answer: The trembling of your arm and pistol which you have noticed in pistol practice is very common and is due to nervousness. Continued practice when this starts only aggravates the trouble, because of strain. The thing to do is to shoot regularly and to practice dry shooting or dry aiming in your room very frequently and regularly. Never overdo it, however, to the point of tiring yourself. In shooting use the gun as a single loader and always lower your arm and wait, or pause, between shots. Stick to this method until your muscles become properly trained and strengthened through practice, and you should eventually overcome it.

The shooting you report of 40% hits is very poor shooting, in my opinion, and shows that you need better equipment, better sights, and more attention to hitting the animal in vulnerable spots instead of anywhere in the entire body.

It is idle to talk of 300-yard small-game shooting with the Krag or the .22 rim fire. Because you must depend on lucky hits, it is unsportsmanlike and not real rifle work. With a scope sight from rest the best your rifles will do is to group in 2-inches at 100 yards. With your bead front sights badly worn, as you mention, your groups would be 4 inches except for occasional lucky groups. That is too poor to hit small game and a real rifleman takes pride in the quality and precision of his marksmanship and its application to game killing. With the Krag you could depend on hitting the body of a rabbit at no longer distance than 100 yards. With the .22 you should limit your range to that at which you could depend on a head, neck or chest-cavity hit. Considering the complication introduced by a variable distance and the trajectory or drop of the bullet, 85 yards would be your maximum dependable range with .22 Hollow-Point bullets. A scope sight would extend the effective range to 100 yards, and for the Krag to 150 yards.

I would suggest that you join one of the nearest rifle clubs affiliated with the N.R.A. by selection from the list of California clubs we are forwarding. Learning real rifle work will be a revelation to you and will be the means of greatly enhancing the pleasure you will derive from subsequent rifle work. Also send 10¢ in coin to the Superintendent of Documents, Washington, D. C., for the Basic Field Manual and then faithfully practice the principles of rifle training which it illustrates.



The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results. Advertisements for **The Members Exchange** are accepted from members only, for their individual and personal transactions exclusively, at 7¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.00. All dealers' advertisements are grouped under **The Trading Post**, the rate for which is 9¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.50. Groups of letters and figures are computed as one word. No box number or blind ads accepted. All advertisements must be accompanied by cash or they will be disregarded. Final closing date is the 10th of the preceding month. Please print all advertisements plainly—we cannot be responsible for errors due to illegible writing.

In describing the condition of guns advertised the following standard phrases must be used: **Perfect** means factory condition. **Excellent** means new condition, implying negligible amount of use. **Very Good** means practically new condition, implying very little use, resulting in no appreciable bore wear and very few and only minor surface scratches or wear. **Good** means moderate use with some finish worn off, and only moderate bore wear with no pits and nothing worse than a little roughness in the bore. **Fair** means reasonably hard service, reasonable wear inside, and nothing worse than a few very minor pits in the bore, implying the gun is practical and sufficiently accurate for hunting purposes. **Poor** means marred appearance and pitted or badly worn bore.

THE MEMBERS EXCHANGE

For N. R. A. Members only, for their individual and personal transactions. This section provides a quick, inexpensive means for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its condition (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

FOR SALE

CLOSING OUT OUR GUN BUSINESS. Chance of a lifetime to pick up a high-grade gun at less than cost. Our over-unda trap and field, 3-bbl. guns, double rifles and deluxe magazine rifles must be sold. Send stamp for list. Baker & Kimball, 278 Broadway, Lynn, Mass. 7-35

30 CALIBER gas checks, \$1.10 per 1,000, postpaid. Money orders, please. Kampen, 557 Pearl Ave., Rockford, Ill. 7-35

REMINGTON 12 ga., good, double barrel, full choke, 30-in. auto selective ejectors, leather case, \$30.00. **Savage 16-ga.** Automatic, very good, 3 shot full choke with extra barrel, imp. cyl., \$55.00. J. A. Kerr, 42 Chapel Rd., Kenmore, N. Y. 7-35

FACTORY condition, Model 21 Winchester double 28-in., cylinder and modified, price \$42.50. G. C. Howard, 104 Baltimore Blvd., Hyattsville, Md. 7-35

SEVEN genuine Elk Teeth, anyone interested write for prices and information. Lewis Krause, Vacaville, Calif. 7-35

PARKER Vulcan Double twelve gauge shot gun, rubber butt plate; also Smith & Wesson 38 Special six inch target sights, both new condition. Make offer. Net cash or trade. R. G. Finkenauer, % York Ice Machine Corp., York, Pa. 7-35

FAIRBANKS 3034 scales, 1935 models, new, \$15.00; excellent, \$13.75. Muzzle loading brass pistol, overall length 5 1/2". Best offer. Chester Gajewski, Pulaski, Wis. 7-35

30X SCOPE, single draw, micrometer adj., \$15.00. 45 Colt new service, 7 1/2" blue, fine, \$18.00. M. Willcher, Rear 1316 Que St., N. W., Washington, D. C. 7-35

Advertisements are grouped under **The Trading Post**, the rate for which is 9¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.50. Groups of letters and figures are computed as one word. No box number or blind ads accepted. All advertisements must be accompanied by cash or they will be disregarded. Final closing date is the 10th of the preceding month. Please print all advertisements plainly—we cannot be responsible for errors due to illegible writing.

TWO FINE 38 S. & W. hammerless revolvers: nicked, with S. & W. pearl stocks, \$18; blued, with walnut stocks, \$15.00. 38 Colt Pocket Automatic, \$15.00. 38 Colt Automatic, with 6-inch barrel and spur hammer, \$18.00. Warren Baker, 1413 Third Ave., Altoona, Pa. 7-35

WINCHESTER 45-70, barrel and action very good, \$12.50. Consider trade. Interested in Woodman, Ace or 45 Auto. **LEBEL 8 m/m**, barrel very good, cut to 24", stock remodeled, equipped with King sights, red-head front and aperture rear mounted on bolt. \$15.00. Prices f.o.b. J. F. Scriven, Box 395F, Menlo Park, Calif. 7-35

GERMAN Silver, one piece .22 caliber cleaning rods, button tip, wood handle, 26 to 36 inches long, 50 cents each, prepaid. Worth \$1.00. Satisfaction guaranteed. L. W. Howland, Mt. Washington, Sta., Cincinnati, Ohio. 7-35

SMITH & WESSON 22 caliber target pistol, Olympic model, new 10" factory barrel, \$21.50. Camp Perry Colt 10" barrel, \$16.50. Springfield Sporter stock with sling swivels and butt plate, \$6.50. Barrel for 52 Winchester, \$8.00. W. Rohrbacher, 851 E. 6th St., Erie, Pa. 7-35

\$250 DOUBLE Francotte 32", full, fine, \$65.00; 8 1/2" 260 DeLuxe Heddon fly rod, \$60 grade, brand new, \$35.00; 8' 235 DeLuxe Heddon fly rod, \$35 grade, brand new, \$20.00; 23 J. Louisville Meek Blue Grass Reel, fine, \$12.50. 100 Win. 30-40 short range smokeless 100 gr. bullet, \$2.50. 80 Win. 45-90-300 Black, \$2.00. 50 25-25-86 Black, \$2.50. D. B. Woodcock, 163 Bank St., Elkhart, Ind. 7-35

EXCELLENT 30-S Remington, extras, \$50.00. Excellent 5-A, micrometer mounts, \$24.00. Excellent 3-B Winchester scope, \$10.00. Fair Remington auto, 24, \$10.00. Excellent Stevens 056, \$8.00. Perfect Remington 12, Mod. 10, \$25.00. Write for details. J. M. Francis, 135 Maple Ave., Troy, N. Y. 7-35

POPE TYPE small bore cleaning rod, 40" drill rod, both ends tempered; brass protective case, threaded caps. Money order \$1.75 complete or your dealer. Blair, College Point, N. Y. 7-35

4 1/2X FECKER Scope and mounts, \$35.00. Springfield Sporter, good, \$30.00. M-1, very good, \$30.00. Remington 12A .22, excellent, \$15.00. 244 Stevens, .25-20 S.S., excellent, \$10.00. See "Arms Chest" classification. Detailed description on request. F. F. Ferris, % Probate Court, Youngstown, Ohio. 7-35

Savage 23D Hornet, perfect, \$21.00. John Breach, 4844 W. 24th Place, Cicero, Ill. 7-35

MILITARY sights, \$27. Winchester 94, carbine, 32S, very good, ivory and open, checked, check piece, sling, case, beauty, \$25.00. Stevens heavy 32-40, front Globe floating bead windage, rear peep elevation, level, excellent in, very good out, adjustable pull, best reasonable offer. S. R. Gibboney, 1921 Point View Ave., Youngstown, Ohio. 7-35

PARKER A. No. 1 Special 28 ga., in perfect used condition. Marvelous shooter for game or trap, \$200.00. Westley Richards 20 ga. ejector, hand detachable locks, in almost new condition, \$200.00. Remington 35 cal. automatic rifle, in good used condition, \$20.00. James Vance, M.D., 315 Mills Bldg., El Paso, Texas. 7-35

.25 MODEL Remington Auto, perfect inside, excellent outside, Lyman 41 receiver, Spl. Marble front, shot 20 times, \$35.00. A. J. Kitz, Seaboard, 8 West 40th St., New York. 7-35

WINCHESTER Model 94 Carbine, very good, gold bead front, Redfield rear, the best offer. Henry N. Peters, 427 Wash. Ave., Albany, N. Y. 7-35

BROWNING Automatic, 16 ga., \$35.00. Malcolm 8 power scope with Lyman micrometer mounts, excellent, \$26.00. Lyman 48W sight for Winchester 54, \$8.00. John Brosen, Owatonna, Minn. 7-35

SAVAGE 1933, inside excellent, outside very good, forearm slightly reshaped on sides, money or 7-35 \$21.50. Bruce Partain, Beeville, Texas.

22-32 SMITH & WESSON, Heiser shoulder holster, both in very good condition, \$21.50. Model 1909 Colt 45, checked grips, very good, \$16.00. Virgil Hall, Stanwood, Iowa. 7-35

L. C. SMITH trap, Olympic S.B., perfect, out 6 months. Cost \$107.50, sell \$60.00 with sheepskin case. Virgil Henson, Villa Grove, Ill. 7-35

REMINGTON Model 31, 5-shot, 16 ga., 26 imp. cyl., Berlin case, shot 200 times, excellent, \$38.00. 1899 Savage Featherweight takedown 25-35 with sling and Marbles rear peep, outside good, barrel fair, \$20.00. The Modern Gunsmith by Howe, \$12.00. W. C. Eard, Lexington, S. C. 7-35

REMINGTON Auto Shot Gun 12 full, excellent, \$30.00. Oigee 4 power rifle scope, inside elevation Picket redicule, no mounts, \$18.00. Gibson Mandolin 4A, like new, case, \$40.00. Fred Von Ronn, 66 Holly Place, Larchmont, N. Y. 7-35

S&W TRIPLELOCK, target .44 special, excellent, \$35.00. Model 1917, very good, \$12.00. Colt New Service Target .44, excellent, \$35.00. Modern Bond mould blocks C-429655, C-452515, \$3.00 each. 44 special tool complete, \$6.00. Size lubricator dies .429, .431, .452, \$2.50 each. 700 C-429655 Wadcutters bullets, \$6.00. Ideal mould 429422, \$3.00. Belding Mould 429200, like new, \$3.50. Cradles 26 tool 44 and .45 auto, \$1.50 each, with neck sizer. 2-120 hole maple loading blocks 44 or .45, \$2.00 each. Remington .50 Navy SS pistol, good, \$12.00. 25-20 SS target with shoulder stock, fair, \$12.00. Armory mould 44 C&B, \$4.00. 1000 2 1/2 primers, fresh, \$2.50. 220 Russian empties, 700 .44 special, 200 .45 auto rim @ \$1.00 per hundred. 2000 .38 specials, \$7.00. W. Richards 10 bore double barrel shotgun, fair, \$7.00. All items f.o.b. Norman Jost, Chatham, N. J. 7-35

SPRINGFIELD Sporter, perfect. Loading tools. One Model 10 Trap Grade Remington Shot Gun, perfect. Stamp for information. No trades. Wm. Winston, Rome, Ga. 7-35

IDEAL Grade, Smith Wild Fowl Gun, 12 ga. 32 full, excellent, \$37.50. 45 U. S. Army Automatic M1911, good, \$12.50. D. B. Conley, Swampton, Ky. 7-35

SPRINGFIELD M.M. No. 1370094, excellent. Type C pistol grip stock with reversed safety lock, shot less than 100 times. Sell \$35.00. Michael Gawron, 3434 N. Avers Ave., Chicago, Ill. 7-35

COLT 45 D.A. 2 1/2" pocket revolver, very good, \$18.00. Remington Derringer 41, very good, \$6.00. Will Hodgins, 1125 East 36th Street, Savannah, Ga. 7-35

COLT, Woodsman H.S. 6 1/2", excellent, \$20.00. S&W M&P Target 38 Special, excellent, \$20.00. C. Glidden, 409 School, Watertown, Mass. 7-35

MANNLICHER Schoenauer, 6.5 m/m, full stock, check, set triggers, pistol grips, very good, best offer, no trades. A. R. Lamb, 462 Indiana Ave., Washington, D. C. 7-35

FINE GUNS! (2) REAL SAVINGS!! (\$28.00) NEW FRIENDS!!! (2)

"Just an expression of appreciation for the 'Arms Chest.' I purchased a gun from two different advertisers in the last issue. Both guns were in perfect factory condition, and I saved \$28.00. Further, I made the acquaintance of two very fine gentlemen. It's a real pleasure to deal with the class of men who read and advertise in **THE RIFLEMAN**."
—W. F. H., Ga.

Sell something, trade something, or buy something through your own ad in the next issue. Closing date for the August issue is July 10th. See full instructions above.

THE BIGGEST NAMES IN SKEET

FRANK R. KELLY, N. J.

OLIVER G. MITCHELL, MASS.

FRANK G. TRAEGER, N. J.

"DON" MORRISON, CALIF.

IVER JOHNSON

CLARENCE T. MITCHELL, MASS.

DR. ROBERT G. VANCE, MASS.

JULES P. CUENIN, CALIF.

BROOKS FARRAR, MASS.

A. C. BOESEL, N. Y.

CHAMPIONS AND TITLE HOLDERS SHOOTING THE FAMOUS

**HAMMERLESS
DOUBLE BARREL**

IVER JOHNSON SKEET-ER

**.410 BORE and
12-16-20 GAUGES**

\$38.50 UP

Made Specially To Order
To Meet Your Personal Requirements

NEW YORK
85 Chambers St.
SAN FRANCISCO
731 Market St.

Send for folder SK-42, giving complete details.

IVER JOHNSON'S ARMS & CYCLE WORKS
87 River St., Fitchburg, Mass.

CHICAGO
108 W. Lake St.
MONTREAL
Cristine Bldg.

**For QUICK and
Accurate Sighting**

**USE
MARBLE'S
Flexible Rear
Sight**

Easily adjustable—able to take hard knocks and with every visual quality a good sight should have. Only Marble's Flexible Rear Sight has the coil spring that returns it to shooting position when struck. Can be folded down when not in use.



Price, \$4.98.
State make and model of gun

MARBLE'S HUNTING SIGHTS

No matter what shape, size or type of hunting or field sight you need, Marble's make it to fit every modern weapon.



Sporting Leaf Sight, First Top No. 69. Price, \$1.50



Standard Front Sight, 1/16 or 3/32 in. Ivory or Gold Beads. Price, \$1.40



Sheard Gold Head Sight. Price, \$1.50

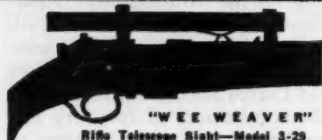
Marble's Products are sold by most good dealers or mailed postpaid on receipt of price. (A-122)

FREE!

You will want our free 32-page booklet on Marble's Outing Equipment, Hunting Knives, Axes, Sights, Cleaning Implements, Compasses, etc. Dozens of useful items for every sportsman.

Write today!

MARBLE ARMS & MFG. COMPANY
502 Delta Ave., Gladstone, Mich., U.S.



"WEE WEAVER"
Rifle Telescope Sight—Model 3-29
For .33, .33 Hornet, .25/20, and similar calibers.
COMPLETE WITH MOUNT \$7.70

3-30 Scope, unexcelled to quality. Complete with the 3-30 Mount, which is the WORLD'S BEST.
\$25
W. R. WEAVER CO., Dept. 1,
Campbell & Franklin Sts. El Paso, Texas

HOPPE'S No. 9



**Is Absolutely Right
for Your GUN BORES**

BANISHES worry, preserves fine accuracy, by removing leading, metal fouling, all residue . . . safely, surely . . . and preventing rust. Use No. 9 regularly, along with the handy new HOPPE'S CLEANING PATCHES—soft, clean, cotton flannel of right thickness, cut to correct size and shape. For working parts, use Hoppe's Lubricating Oil. At your dealer's. For No. 9 sample send us 10¢. Oil sample 15¢. Regular size patches 25¢.

FRANK A. HOPPE, Inc.
2321 No. 9th St. Phila., Pa.
Gun Cleaning Guide FREE

COLT O.M. 22, very good, not recessed, cork lined wood case 14 x 6 x 3. Heiser holster, \$25.00. C. R. Hight, Dalton City, Ill. 7-35

CUSTOM stocked 25-20 S.S. Winchester. Check piece, pistol grip, checkered. Light action, number 2, 28 inch octagon barrel. Fine condition, accurate. Scope bases, sling, Lyman tang, globe windage front. Winchester tool and mould, B&M tool without bullet seater. All \$55.00. Ralph Larson, 274 East Third Street, Elmhurst, Ill. 7-35

405 WINCHESTER: 30-30 Savage, both lever action, perfect. Description and photograph for 3¢ stamp. Joseph S. Christ, 4815 Milwaukee Ave., Chicago, Ill. 7-35

CUSTOM built Springfield Sporter. Oiled walnut stock, ebony forend, National Match barrel, ramp front, 48 rear, perfect inside, excellent outside. First M.O. \$45.00. B. W. Orne, Fergus Falls, Minn. 7-35

BEST OFFER, Remington 11, 12, full, imp. cyl., very good. Mayes Behrman, Jr., Greensboro, N. C. 7-35

MANNLICHER Schoenauer, 6.5 m/m caliber. 18 inch barrel, very good. Lyman No. 36, 150 cartridges, reloading tools, \$30.00. H. K. Burrell, Parsons, W. Va. 7-35

SAVAGE .250-3000 bolt, Model 20, Jostam pad, Web sling, Lyman front and rear, condition between excellent and very good, \$25.00. Reising .22 auto, between very good and good, \$20.00. First money order. R. W. LeFevre, Rodgers Av., S. W., Atlanta, Ga. 7-35

SACRIFICE Model 99 R.S. Savage, Caliber 300, factory grease, 20 shells, \$57.50. Model 21 Winchester standard double 28" barrels, cylinder and modified, ivory sights, weight 7 lbs., very good, \$42.50. Underwood 24 typewriter, excellent, \$39.50. No trades. Philip M. Tirrell, Morristown, N. J. 7-35

S&W 22-32 Target Revolver with Heiser holster, excellent, \$20.00. Colt's Officers Model Target, 7 1/2" barrel, Patridge sights, with Heiser holster, excellent, \$28.00. Parker Double 16 ga. D.H.E. Grade, excellent, \$88.00. Money order. D. I. Simmons, 6010 Yucca St., Los Angeles, Calif. 7-35

COLLECTORS—Colts 1850 percussion, \$15.00. Remington 1873 Pocket, silvered, engraved, pearl grips, \$10.00. Sharps 1859 four-barrel Derringer, \$5.00. All fine. Keltner, 422 East 77th Street, New York City. 7-35

FARQUHARSONS and other fine British single shot rifles; some of FIRST QUALITY; some with goldplated lock mechanisms; some almost new; some require refinishing; fine for relining to Hornet or new barrels up to the 600 Cordite; list on application. Dr. Geo. R. Hays, Richmond, Ind. 7-35

ERIC JOHNSON straight-pull, excellent, no iron sights, \$35.00. Vickers deluxe restocked, perfect, personally selected at factory for accuracy, extra action parts, \$50.00. WANT—52 action. V. F. Hamer, Woodstock, Minn. 7-35

SHARPS Borchardt action, good, \$6.00. Sharps 45-70 D.S. trigger, outside good, barrel fair, \$8.50. Colts S.A. 45, 7 1/2", barrel very good, outside refinished, \$12.50. Colts S.A. 44 Special, 7 1/2", new barrel and cylinder, \$12.50. Gov't A.C.F., good, 3 magazines, \$12.50. Remington S.A., 434", 44-40, serviceable, \$6.00. Ideal 25-20 R tool, fine, \$2.50. Stevens #44, 25 RF, slightly pitted, \$3.50. Collection of 12 old pistols, revolvers, decorators, some rare, \$25.00. WILL BUY—Springfield actions or parts or W54 action. Peter Jensen, Whitehead Drug, Boise, Idaho. 7-35

MODEL 14A, 30 cal. Remington slide, inside and mechanically perfect, stock good, otherwise excellent outside, gold bead front, Lyman rear, \$25.00. B. W. Orne, Fergus Falls, Minn. 7-35

WINCHESTER S.S., 32-20, new barrel, pistol grip, check piece, Ideal tool, \$20.00. James M. Lee, Clarinda, Iowa. 7-35

WINCHESTER 52 speed lock, 17A good, \$30.00. Walnut Hill, 48L, very good, \$27.50. USRA 6", very good, \$29.50. Ithaca Trap grade 4, 32", good, \$59.50. Webley "Fosbery" 455, very good, \$35.00. Lyman 5A with mounts, very good, \$29.50. WANT—Good camera, preferably Roliflex, Superb, Leica or Contax. Harry Bedwinek, 615 Kanawha St., Charleston, W. Va. 7-35

TWO WESTERN Automatic Traps, double arms, good as new, \$12.00 each. Ralph H. Mears, Elmhurst, Ill. Phone 980. 7-35

ONE O.M. Colts, like new, 7 1/2" barrel, 38 cal., \$29.00. One New Service, very fine, 7 1/2" barrel, 45 cal., \$19.00. E. B. Dickson, 609 W. Woodland, Youngstown, Ohio. 7-35

45 COLT Automatic, excellent, \$23.00. New Movie Camera and Projector, \$20.00. Capt. Pedersen, 1246 Bloomfield, Hoboken, N. J. 7-35

WHITNEY repeating rifle, cal. 44, best cash offer. J. E. Frisque, Yakima, Wash. 7-35

WINCHESTER 54 Hornet, Lyman 48, Fecker blocks mounted, excellent, fired less than 150 times, \$50.00 cash. J. O. Goodrich, Penn Yan, N. Y. 7-35

NEW!
WINCHESTER M69 \$11.50
A handsome well-balanced 22 cal. POSTPAID bolt action repeater with neep sights, walnut stock and semi-beavertail fore-end. \$2.00 deposit on C.O.D. orders. J. Warshaw & Sons, 1014 1st Ave., Dept. B, Seattle, Wash.

SENIOR MEMBERS OF THE NATIONAL RIFLE ASSOCIATION
CAN NOW BUY

WINCHESTER RIFLES AND SHOTGUNS ON TIME

There is now no further need to deprive yourself of the gun of your choice.

A small amount down and a few dollars each month will bring you any one of the splendid rifles or shotguns made by Winchester.

Let us know what gun you want and we'll send you full details.

THE NATIONAL TARGET & SUPPLY CO.

1249 25th St., N. W.

Washington, D. C.

COLT Officers Model .38 caliber, 6" barrel, excellent condition, \$21.00 express collect. Dr. H. P. Miller, 308 Best Bldg., Rock Island, Ill. 7-35

CHUCK Outfit. Winchester 54 N.R.A. 30-06, excellent. B&M Straightline Loading tool. Extra plugs and bullet seaters, excellent. Also N.M. '32 cases and F. A. Primers. B&M Visible Powder Measure, excellent, \$65.00 takes all. Watson H. Thrower, 84 West St., Concord, N. H. 7-35

COLT O.M. 38, 7 1/4" barrel, excellent, \$25.00. Luger Automatic, 9 m/m, 4" barrel, fair, \$15.00. Fecker 8 power, with mounts, 1 1/4 Objective, good, \$45.00. Springfield N.M. 30-06 barrel and action, with Lyman 48, good, \$15.00. Money orders. W. W. Vreeland, 265 North 6th Street, Newark, N. J. 7-35

HOWE, Modern Gunsmith, new, \$12.00. Colt Police Positive Target Revolver, ivory stocks, beautifully engraved by Kornbrath. .22 long rifle, without embedded head, new, \$30.00. Cost \$60.00. N. F. Harriman, Kenesaw Apartments, Washington, D. C. 7-35

.45 C.N.S., good; 38 S&W M&P, perfect; 38 C.O.P., very good; H&R 22 Special, good. Write for prices and complete descriptions. John Kwarczak, 222 Sixth Ave., Aliquippa, Pa. 7-35

THOMPSON pulp balance, very good, sensitivity 1/4 milligram, capacity 150 grams, \$22.50. Thompson analytical balance, sensitivity 1/20 milligram, very good, \$45.00. M52, S.L., excellent, \$20.00. Foamite fire extinguisher, excellent, \$12.50. Motor, 220 volt, 1 h.p., excellent, \$22.50. WANT—4X Noske; Weaver 3-30; Targets 10X; Lyman 438. Dave Smith, 912 W. 10th, Coffeyville, Kans. 7-35

FOR SALE ONLY—Perfect Griffin & Howe Sporting Springfield. 28 inch 30-06 Niedner close chambered medium weight barrel. Sights, hooded ramp front, iron and ivory beads, Lyman 48 rear. Double set triggers. Fine checked pistol grip stock, Silver's recoil pad, Whelen sling, Horn tip fore end. Cost \$230.00. Best cash offer takes it. Samuel Osgood, 64 West Water Street, Rockland, Mass. 7-35

1894 30-30-20" Special job, excellent, \$20.00. Marlin No. 44-20-28-F, pad, v. g., \$18.00. S. & W. 32-20-5", Holster, belt, ctgs., \$18.00. .38 Auto Military, excellent, \$14.00. .38 Auto ctgs., \$2.00 per 100. Gordon Boser, Springville, N. Y. 7-35

KRAG rifle as issued, also Lyman 34 Wind-gauge receiver sight with disc, both for \$11.00. George F. Kerwin, 1016 Rutger St., Utica, N. Y. 7-35

GOOD Remington 22 rifle, 12C N.R.A. target model, Lyman Globe and Peep Sights, fifteen dollars. John Holingsworth, Norwood, Mass. 7-35

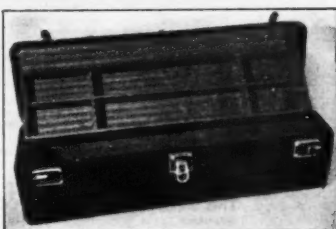
WINCHESTER S.S., W.C.F. Hornet, fair, scope fine, \$35.00. First money order. C. B. Charlton, Eagleville, Tenn. 7-35

DALY HORNET, perfect, \$48 rear and Fecker blocks, \$80.00. Geo. Ellsworth, 199 Montclair Ave., Montclair, N. J. 7-35

BIG GAME, TARGET OR VERMIN LOADS TO ORDER

All calibers, Hornets to Magnums. 3000 foot Hornet loads a specialty. Ask for circular.
SMITH'S CUSTOM LOADS MIDDLEBURY, VT.

BADGER SHOOTING KIT \$4.75



Holds any scope sight—see "Dope-Bag" write-up. April RIFLEMAN.

BADGER SHOOTERS SUPPLY Owen, Wisc.

WINCHESTER Models 92 and 94, all calibers, new, \$25.00. Winchester 90, 22 l. r., excellent, \$15.00. George Ross, 123 S. Orchard, Watertown, N. Y. 7-35

K-22, PERFECT, shot very little. Call sight, special matted ramp base blued by Smith & Wesson, spring shoulder holster, first \$25.00 money order. Lache Corlis, Branson, Mo. 7-35

AMMUNITION, Winchester-Krag, 220 grain, F. M. P. bullet, \$2.50 per hundred; \$22.50 per thousand. Q. D. Foster, Delaware, Ohio. 7-35

WINCHESTER 62, factory grease, \$14.00 postpaid. Redfield 100-G Micrometer, sheared front for 1933, 23 Savages, both perfect, \$9.00 postpaid. Glenn Barton, Grover, S. Dak. 7-35

PRIZED GUN FOR SALE: Muzzle loader, 12 gauge, 79 gold inlays, dogs, deer, birds, gold-plated hammers. Only one of its kind in America, \$50.00. Actual photo 10¢, list others free. Paul Ratliff, Stevenson, Wash. 7-35

1-12 GAUGE L. C. Smith, Field Grade, ejectors, recoil pad, 28 inch bbls., R 55% L full choke, very good, \$30.00 f.o.b. D. O. Etter, 1917 Carlton Ave., Ft. Worth, Texas. 7-35

D.C.M. SPORTER, \$45.00. 30 Win. Model 64, receiver sight, \$30.00. 45 S&W Model 17 Target sights, \$25.00. 44 S&W triple lock, 6 1/2", Ideal tool, \$35.00. 20X Megaphos Binocular, \$18.00. 10X B&L Binocular, \$30.00. All very good. Ezra Carpenter, Owls Head, N. Y. 7-35

TWO CASES selected 1918 30-06 ammunition. Bargain at \$15.00 per case. J. H. Kelley, Jr., 450 1/2 E. Commercial, Springfield, Mo. 7-35

FACTORY GREASE. Two M21 Winchester: 12-30 MF ejectors, 12-26 CM. M34 Hornet, 48W. Best cash offer. Rev. Hilner, Meyersdale, Pa. 7-35

NOSKE 2 1/2X scope, internal windage and elevation, extra 4X lens, cross-hairs, excellent condition, \$25.00. H. K. Burrell, Parsons, W. Va. 7-35

GENUINE Hoffman Magnum, .300 cal., in perfect condition throughout, with 5 boxes ammunition, first \$150.00 takes gun. Deluxe engraving, carving and gold inlay. Geo. B. Schutt, P. O. Box 602, Anacosta, Mont. 7-35

There is a Fecker Telescopic Sight

for every rifle and every need. For small game and varmint shooting, the small game scope in 2 1/2, 3 or 4 power, in lengths from 10" to 13", with plain or 1/4 minute click mounts, priced from \$30.00 to \$42.00.

For target shooting, the 3/4" objective scope, in 4.5, 6, 8, or 10 power, priced at \$45.00, complete.

For target shooting and spotting, the 1 1/8" and 1 1/2" objective scopes, in 6, 8, 10, 12.5, and 16 power, priced at \$65.00 and \$100.00, complete with mounts, bases and caps.

A scope for every need, in every price range, all of unsurpassed quality.

J. W. FECKER

2016 Perryville Ave.

Pittsburgh, Pa.

A catalogue sent upon request

ANTI RUST

THE OIL THAT STAYS PUT

HAS NO EQUAL for the protection from rust on RIFLES, SHOTGUNS, REVOLVERS, Cutlery, Fishing Tackle, Small Instruments, Tools, Bank Vaults, Photo-engraving Tools and Equipment. Prevents tarnishing of polished brass. Leaves tough film which stands lots of handling. Is not messy to handle. Tested and approved by THE RIFLEMAN. ORDER A BIG 8 OZ. TIN for only \$1.00, 2 oz. bottle, 35¢, small sample 10¢. DEALERS, WRITE FOR PRICES.

Riel & Fuller, Dept. A, Fredonia, N.Y.

THREE ESSENTIALS FOR GOOD MARKSMANSHIP

An Accurate Gun . . . Match Ammunition . . . Official Targets



It's no wonder that many shooters fall by a wide margin to score as well in match competition as they consistently do in practice and informal shooting.

For practice they wouldn't even think of using anything but their most accurate gun, and selected ammunition—but they will use most any old kind of *printed* targets. And most targets of that sort are grossly inaccurate in dimensions and

distances, with egg-shaped bullseyes, scoring rings of varying widths, etc.

You'll find that the consistent medal winners use *only* OFFICIAL, lithographed targets for all their practice shooting, the same targets the N. R. A. requires to be used in all official competitions. And they are no more expensive than the ordinary kind. Order an ample supply, right now.

TARGET	NO.	DISTANCE	SMALL BORE RIFLE TARGETS	PER 100 COST	PER 1000 WT. COST
A-10	50 Yd.	Two Bulls, Heavyweight Target Paper	.85 3 $\frac{1}{2}$	6.38 21 $\frac{1}{2}$	
A-11	50 Yd.	Two Bulls, Special Tagboard	1.00 4 $\frac{1}{2}$	7.50 34 $\frac{1}{2}$	
A-14	100 Yd.	6 Inch Bull, For Metallic Sights, Heavyweight Target Paper	1.30 4 $\frac{1}{2}$	8.75 34 $\frac{1}{2}$	
A-15	100 Yd.	6 Inch Bull, For Metallic Sights, Special Tagboard	1.30 7 $\frac{1}{2}$	11.25 60 $\frac{1}{2}$	
A-17	200 Yd.	Decimal, Heavyweight Target Paper, 40s for 10	3.50 10 $\frac{1}{2}$	26.25 92 $\frac{1}{2}$	
A-18	200 Yd.	Decimal Center, Heavyweight Target Paper	.90 2 $\frac{1}{2}$	6.75 15 $\frac{1}{2}$	
A-20	50 Meter	International Two Bulls, Special Tagboard	1.50 7 $\frac{1}{2}$	11.25 60 $\frac{1}{2}$	

TARGET	NO.	DISTANCE	STD. AM. PISTOL TARGETS	PER 100 COST	PER 1000 WT. COST
B-6	50 Yd.	Slow Fire (8, 9, and 10 Rings black) Heavyweight Target Paper, 40s for 10	3.00 10 $\frac{1}{2}$	22.50 92 $\frac{1}{2}$	
B-7	50 Yd.	Slow Fire Centers (8, 9, and 10 Rings black) Heavyweight Target Paper	1.00 3 $\frac{1}{2}$	7.50 23 $\frac{1}{2}$	
B-8	50 Yd.	Slow Fire (9 and 10 Rings black). Also used for 25 Yd. Rapid and Timed Fire, 40s for 10	3.00 10 $\frac{1}{2}$	22.50 92 $\frac{1}{2}$	
B-9	50 Yd.	Slow Fire Centers (9 and 10 Rings black). Also used for 25 Yd. Rapid and Timed Fire	1.00 3 $\frac{1}{2}$	7.50 23 $\frac{1}{2}$	

All prices F.O.B. Washington. For complete price lists see pages 32 and 33, MAY RIFLEMAN.

NATIONAL TARGET & SUPPLY CO., 1249 25th STREET N. W., WASHINGTON, D. C.

1400 ROOMS
with BATH, RADIO
\$2.50
from *single*
AND \$3.50 DOUBLE

Whether you come to New York for business or pleasure, you'll find the Lincoln, one of Gotham's largest and newest hotels, offers you *superior accommodations for your hotel dollar in New York.*

- One block to Times Square...
- 3 blocks to 5th Avenue... 8 minutes to Wall Street... 69 theatres within 6 blocks.
- 32 stories of sunshine... three fine restaurants to choose from

NEW YORK'S 4 STAR HOTEL

Hotel
LINCOLN
44th to 45th Sts. at 8th Avenue
NEW YORK

BOND TYPE "D" LOADING PRESS FOR .38 S. & W. SPEC.

SEND 10c FOR CATALOG OF MOULDS AND OTHER TOOLS

MODERN-BOND CORP.
813 W. 5th ST.
WILMINGTON, DEL.

Lawrence STEER-HIDE HOLSTERS and CARTRIDGE BELTS

No. 35 Cartridge Belt, with seven loops. Give waist measurement and caliber of cartridge. Postage prepaid. *Never removed* **\$2.50**
3 inch width . . . \$7.50
2 1/2 inch width . . . \$7.00

No. 271 Holster. Hand made, molded over forms to exactly fit your revolver, and lock-stitched. Give revolver and automatic model and barrel length or send tracing. Postage prepaid. *Flower stamped* . . . \$3.75 *Plain* . . . \$2.40
It costs you nothing to order direct.

Send 3c stamp for Sporting Goods catalog.

The GEORGE LAWRENCE CO.
Since 1857 PORTLAND, OREGON

VERY GOOD: Woodsman, holster, \$22.00; OM 38-6" \$26.00; SA 44 Spl. 5 1/2", \$22.00; 22 target rifle (like Springfield 056) with new 4X micro. scope, \$25.00; Win. 92 25-20, new bbl., 1/2 mag., 4X scope, \$30.00. GOOD: S&W 32-20 M&P Target, \$20.00. FAIR: OM 38-7 1/2", \$16.00; Krag, \$8.00; 45 Springfield, \$4.00. C. L. Hennig, 4625 N. 52nd St., Omaha, Nebr. 7-35

A-5 WINCHESTER scope, regular micrometer mount, blocks, heavy leather case, prepaid, \$22.00. O. B. Ross, Box 384, Trona, Calif. 7-35

STEVENS-POPE \$52-44 1/2, 32-40, perfect, \$125.00. Kasper E. Kruger S.S. engraved 25-20 R, extra 410 3" N.S. shot barrel by Peterson, excellent, \$60.00. Stevens 44 1/2, Peterson 25-20 S.S. fancy, excellent, \$45.00. Sharps S.H. fancy sporting 40-70 B.N., 250 shells, \$65.00. Ballard 32-20, excellent, \$30.00. Stevens 249-44, 28-30, good, \$25.00. Stevens 251-44, 28-30, excellent, \$50.00. Winchester S.S. Light 32 Ideal, shells, very good, \$15.00. Parker V.H. 12, single trigger, very good, \$40.00. Luger 9 m/m 6", excellent, \$30.00. Bisley, 41, very good, \$25.00. S&W 32 H.E., excellent, \$15.00. Colt 38 Special, \$50.00 engraving, excellent, \$45.00. H&R S.A. Sportsman, excellent, \$13.00. Colt S.A. 5 shot 38, engraved cylinder, good, \$12.50. Colt 36 cal. C&B, excellent, \$30.00. S&W Peterson 38 Special Russian target, perfect in, very good out, \$35.00. S&W Russian target 32-44, good, \$15.00. D. B. Wood, Maysville, Ky. 7-35

S&W 22-32, fair, \$12.00. Good Woodsman 6-in. not H.S., \$15.00. Lindahl, 205 E. Quincy Rd., Riverside, Ill. 7-35

HOFFMAN deluxe overunder trap. Nieder-Remington 7 m/m Noske scope. Ithaca 5 single trap, 3 1/4" x 4 1/4" Graflex Telephoto lens. 4-0 Vom Hofe Reel and Rods. All perfect. Have several others. WANT—Good 16" lathe. A. R. Pryor, 2023 5th Ave., So., Birmingham, Ala. 7-35

22 COLTS Auto, Remington 12-C N.R.A., perfect, \$17.00 each. A. E. Levriett, Box 4009, Jacksonville, Fla. 7-35

BARGAINS! Practically new B.S.A. model Martini action 22 Lr. by high grade German maker. Fired less than fifty times. Equipped with Zeiss 6X scope, \$49.00. Parker C.H. double ejector 30" full and modified, new condition. Retail price \$236.50. Sell for \$125.00. W. G. C. Kimball, Woburn, Mass. 7-35

38 COLT Lightning, \$25.00. 12 Colt Double Hammerless, \$35.00. 22 Short Winchester Musket, \$7.50. All accurate and good usable condition. Money back guarantee. Hifton, Box 1335, Taft, Calif. 7-35

STOEGER S. S. Target Pistol, 22 cal., S. T. perfect, \$11.00. Stamp for list, supplies for the Hunter and Target Shooter, everything. Donald Dean, Belvidere, N. J. 7-35

ANTIQUE pair Ketland Flintlock duellers, \$40.00. Another pair by Wogdon, cased, \$60.00. S&W 45 Schofield, excellent, \$75.00. Another stamped "W.F.Co. Ex.," good, \$12.00. K. Frazer, Davis Bldg., Portland, Oreg. 7-35

PARKER DHE 12-30, modified and full, excellent, \$87.50. Original Dan LeFever 12-26 "C" grade. Wonderful engraved, \$50.00. Freeman, 1645 Felham Road, Atlanta, Ga. 7-35

10 POWER 1 1/4" Fecker Scope Precision Mounts, \$50.00. 6 power 3/4" ditto, \$35.00. 32-20 Bisley 4 1/4" Blued, \$20.00. 7" H. & R. latest single shot, \$15.00. 7 m/m \$175.00 Mauser Sporter, \$85.00. 12 Ga. 32 Specialty Smith Single, \$55.00. 12 ga. 30" \$360.00 B. H. E. Parker single trigger 7 1/2 lbs., \$135.00. 35 Rem. Auto. Fancy P. G. stock and forend, \$37.50. All excellent. E. H. Hansen, Elkhart, Ind. 7-35

7 M/M WAFFENFABRIK Mauser, good, \$25.00. Springfield 30-06 N.M. receiver 1402307 star gauge barrel, never shot, \$32.00. Krag sporter custom stock 24" barrel, loading tools, \$23.00. Winchester 1876, 45-75, good, original blue, \$17.00. 1876 40-60 relic, \$4.00. 38-55 Ballard with loading tools, \$10.00. Stevens 22 target pistol \$10, excellent, \$9.00. 32 vest pocket Sauer auto pistol, \$9.00. U. S. Navy officers sword, regulation, \$5.00. 1917 Enfield stock inlet P.G. hi-comb, \$3.00. Send stamp for list of heavy muzzle loading target rifle, set triggers, very good. WANT—N.R.A. Stock for 54. 10X Target Spot. B&L Spotting Scope. P. H. Phillips, % Northern States Power, La Crosse, Wis. 7-35

STEVENS 44 1/2 D.S., 13 1/2 pound 32-40 Schuetzen rifle, SA Winchester scope and complete outfit. Barrel good, sharp lands, still makes good score, \$48.00. Will furnish full, honest description. A. W. Eggers, 454 N. Harrison Ave., Kirkwood, Mo. 7-35

LYMAN #22 scope, perfect, mount scratched, \$10.00. Goertz 3X scope, fair, \$4.00. Ideal mould \$360271, very good, \$4.50. Stoeger pistol #763, inside excellent, outside poor, \$10.00. C. Farquhar, Ft. Covington, N. Y. 7-35

PARKER V.H. 12-30, case, excellent, \$48.00. Remington 31, 16-28, perfect, \$38.00. M. F. Gage, Pine City, N. Y. 7-35

10 POWER targetspot, bought new three weeks ago, absolutely perfect, \$45.00. L. C. Turner, 713 East Powell Ave., Ft. Worth, Texas. 7-35

WINCHESTER 92, 25-20, good, \$12.50. Winchester 61, excellent, \$15.00. Lyman 5A, excellent, \$30.00. Eastman 2C Kodak 7.7 lens, excellent, \$5.00. Ralph Koken, Superior, Nebr. 7-35

GOVERNMENT GUN SLINGS

A-1 Army leather gun slings. **35c**

Brand New 75c
Brand New and oil treated 90c
Revised, per set 90c
J. Worshal & Sons, 1014 1st Ave., Dept. B, Seattle, Wash.

Restocking Pamphlet **FREE** to N.R.A. MEMBERS

INLETED GUN STOCKS

\$5

REQUIRE ABOUT
ONE DAY TO FINISH

Stoeger Peerless Walnut Stock for Enfield, Springfield, Krag. Quality & fit guaranteed.



Rifle, Winchester 52 & 54, Remington 30, 34 & Russian Col. 7.62. Also lists & prices Gun Stocks & Forends for popular makes of Guns. Walnut Stock and Forend Blanks; Accessories.

IF IT'S A WALNUT STOCK—STOEGER HAS IT!

Send **50c** in M. O., Coin, Check or Stamps for 304 page

STOEGER CATALOG & HANDBOOK. Contains 12,000 items, 4,000 illustrations with complete description, latest reduced prices of all leading American & Imported Arms & Ammunition. Complete gun parts section for Gunsmiths. Gun Sights, Gunsmithing, Complete Ballistics, etc.

A. F. STOEGER, Inc.

AMERICA'S GREAT GUN HOUSE

507 Fifth Avenue at 42nd Street New York, N. Y.

**STOEGER features
LOWEST
RESTOCKING PRICES
ever offered**

Send today for **FREE** 16 page Pamphlet, Only One of its Kind in America—Answers Every Restocking Question

A. F. STOEGER, Inc.

**America's Great Gun House,
507 Fifth Ave., New York, N.Y.**

Dear Sir: Please send me a **FREE** copy of your 16 page **GUN STOCK & RESTOCKING PAMPHLET.**

Name _____

Address _____

City _____

State _____

SAVAGE latest 19 Hornet, excellent, specially selected barrel, \$30.00. Same in .22 caliber, \$25.00. Both with scope blocks. Fecker ten inch three power with 1/4 min. precision mounts, \$32.00. No trades. E. H. Brennan, Celina, Ohio. 7-35

.30 GENUINE Luger 4", perfect, holster, shoulder stock, extra 8" barrel, \$35.00. Colt 45, 1917, good, \$12.00. I.J. Double 12-30, ivory sights, recoil pad, excellent, \$17.00. 9 m/m Service Luger, very good, holster, two magazines, \$18.00. Chas. O'Neil, Two Rivers, Wis. 7-35

L. C. SMITH double 12-30 full, ejectors, selective single trigger, \$36.00. Baker Paragon, double 12-32, ejectors, full trap choke Krupp barrels, \$50.00. Winchester 1912, 26-in. full, fair, \$20.00. C. H. Combs, Hastings, Nebr. 7-35

FINE SPORTERS, Krag, \$18.00; Russian, \$12.00. Marlin pump 25-20, 1892 Winchester 32-20, Remington 12C, Bisley 32-20, Frontier 38-40, Colt Army 38-6, Choice, \$12.00. John Smith, Williams Ave., Barrington, N. J. 7-35

.30-40 WINCHESTER 1895 carbine, very good, \$20.00. .32-40 SS Winchester, very good, \$15.00. 6 m/m Winchester-Lee Straightpull, poor, works fine, cartridges, \$10.00. 45-70 Sharps-Borschardt, fair, \$10.00. .32-44 S&W .380 Savage. Others. Several used tools, moulds. Send stamp for list. James Cassidy, 5431 Harper Ave., Chicago, Ill. 7-35

44% ACTION, sell or trade, make offer. **WANT**—U. S. Muskets, rifles, carbines, muzzle or breech loading, priced reasonably. William Hecker, 3386 Ingleside Rd., Shaker Heights, Ohio. 7-35

HUBALEK 52, 1 1/4 x 1" barrel, excellent inside and out. Beautifully checkered stock, 17-A front, Redfield 100-A rear. Cost \$100.00, sell \$75.00, or \$65.00 without Redfield. Colt A.C.P. 380, excellent, \$15.00. Spotting scope, prismatic, three inch objective, 25X, with special factory made tripod and leather carrying case, as new, \$32.00. R. B. Cooper, Box 286, Vincennes, Ind. 7-35

.30 SHORT action Mauser Springfield Sporter barrel Niederr chambered, accurate, Goetz 2 1/4X scope, very good, \$85.00. International Match Martini, excellent, \$120.00. Winchester S.S. 30-40, fine stock, excellent, \$25.00. K. Fraser, Davis Bldg., Portland, Ore. 7-35

REMINGTON 31A, 16-28 modified, very good, \$25.00. No trades. Robert Johnson, Polo Rd., Bryn Mawr, Pa. 7-35

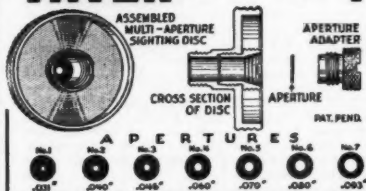
SAVAGE 19 Hornet with sling, inside perfect, outside excellent plus. Lyman 5A scope with leather case, perfect. Outfit cost \$92.00, sell for \$65.00. G. L. Jackson, University High School, Ann Arbor, Mich. 7-35

3 BARREL GUN! Two 12 Ga. 30" shotgun barrels, one 9.3 m/m x-74 rifle barrel. Recoil pad, cheek piece stock, double trigger, rifle sights, good condition, \$59.50. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

.22 CAL. SISK BULLETS

All Sisk bullets now jacketed with Gilding metal. 65-grain bullets have been fired at velocity of approximately 4200 f.p.s. without trace of fouling. **R. B. Sisk, Iowa Park, Texas**

VAVER MULTI-APERTURE SIGHTING DISCS \$1



Fit all standard receiver sights. This apertures, instantly interchangeable, assure sharp, clear-cut image, "free from cobwebs." 1/4", 3/8", 1/2", 5/8" (specify size) Improved, long hooded Eye Cup complete with coin-slotted Adapter and 7 apertures, postpaid \$1. **WITTEK MFG CO. 4307 W. 24th Pl., CHICAGO**

SPOTTING SCOPES! Wollensak 10X \$6.95, 15X \$8.95, 20X \$10.50. Bausch & Lomb Draw Tube 20X \$27.00. All postpaid. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

EXCELLENT 38 Special single action Colt, \$23.00. Good Winchester 1892 38-40 solid frame, octagon barrel, \$17.00. First money order. R. Holland, Beverly, N. J. 7-35

RELOADING TOOLS, COMPLETE! Ideal \$9.25. Pacific \$20.50, \$22.50, 10% discount. Pacific powder scale with weights, \$7.00 net postpaid. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

.32-40 WINCHESTER Schutzen 30" nickel, set trigger, \$35.00. K-22, very good, \$25.00. 32 Winchester SS Target Rifle, new condition, mould, tools, \$20.00. M. DuMond, Route 5, Stevens Point, Wis. 7-35

LATEST 22 RIFLES WITH PEEP SIGHTS! Stevens "Buckhorn" single shot No. 053 \$5.95, Repeaters No. 056 \$9.75, No. 066 \$10.75. New-est Mossbergs, Single shot No. 25 \$4.95, No. 35 Deluxe \$8.95, Repeaters, No. 42 \$9.50, No. 45 \$9.85, No. 46 Deluxe \$11.50. Gun Sling free! J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

.30-06 Remington, B&M stock, Marksman scope, case, very good, \$80.00. .44 S&W Special Target, triple lock, excellent inside, good outside, \$35.00. Latest .45 Colt Auto, Heiser combination holster and belt, perfect, \$28.50. S&W Straight Line, accessories and Heiser holster, excellent, \$20.00. Pre-war 7.65 Luger, 4 1/2 in., very good, \$22.00. C.O.D. deposit \$2.00. E. Thomson, 23 Pinckney, Greenville, S. C. 7-35

LATEST! 10-X SKEET. TRAP COAT \$3.65. 10-X Shooting Coats \$4.25, Deluxe \$4.65. Glove \$1.00. Rustproof Sheepskin gun cases, \$3.50, \$3.75. All postpaid. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

32 S&W SAFETY: 45 A.C.P.; 32 A.C.P.; beautiful Myrtle stock Enfield, new, never fired; used Enfield, restocked; 303 Savage, restocked. Several others. Stamp for reply. E. H. Hoffman, 734 10th St., N. W., Washington, D. C. 7-35

You will need first-class equipment for the Camp Perry try-outs

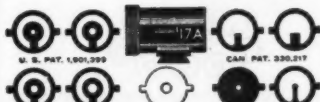
LYMAN SIGHTS

will help you get there!



Lyman 48Y Micrometer Receiver Sight designed especially for the Savage Model 19, and 19-33 N. B. A. target rifles. Sight located on left of receiver is convenient for all four shooting positions. Adjustments in 1/4 minute clicks. Base serves as block for scope rear mount. A finely made precision instrument. \$13.00 (Also fits Savage Sporters.)

Lyman 48J Micrometer Receiver Sight designed especially for the Winchester Model 52 target rifle. This sight, like the 48Y, will demonstrate the highest accuracy built into the rifle by the manufacturer. Mount on left side of the receiver. Adjustments in 1/4 minute clicks, distinct as to touch and sound. Large adjusting knobs. Base serves as rear scope mount block. \$13.00 complete.



No. 17A hooded target front sight now supplied with large diameter, broad rim retaining nut. Nine interchangeable inserts. \$2.50. Transparent inserts available.



Write us for information. Give make, model and caliber of your gun

New Lyman Sight Catalog No. 23 just out. 64 pages, 10c.

THE LYMAN GUN SIGHT CORP.
90 West St., Middlefield, Conn.

RICE PEEP SIGHT



for Krag rifles only. Positive elevation and windage. Anyone can mount. Fine hunting sight. Can't work loose. \$1.00. Springfield Sporter built plates, cast aluminum, \$.50. Satisfaction or money refunded.

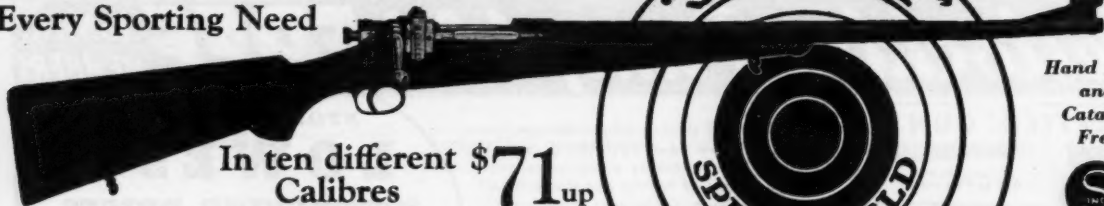
LEROY RICE

856 7th St., Elyria, Ohio

WINCHESTER M21 DOUBLES

1/2 Price! Grand new! 2 only.....
12 Ga. 32" full choke, 3 only..... **\$36.45**
12 Ga. 32" mod. & full, 5 only.....
20 Ga. 28" mod. & full.....
5 only 12 Ga. 30" mod. & full, Auto eject.....\$41.45
J. Warshal & Sons, 1014 1st Ave., Dept. B, Seattle, Wash.

There's a "SEDGLEY" Springfield for Every Sporting Need



In ten different \$71^{up} Calibres

Other Calibres Built to Your Order

R. F. SEDGLEY, Inc. Manufacturer Established 1897
2311 N. Sixteenth St., Phila., Pa.

Pacific Coast Representative: D. W. King Co.,
555 Howard St., San Francisco

Hand Book
and
Catalog
Free



Springfield
.30-06 Actions
Used on
All Models

REDFIELD

SERIES 102

Receiver Sights



\$2⁵⁰
TO \$4.50

Strongest and most practical hunting sight ever made. FULLY GUARANTEED to give complete satisfaction. Easy to mount—no need to cut wood on most rifles. Positive windage and elevation adjustments—guaranteed to stay put. Made to fit most popular rifles.

Redfield RAMP



FRONT SIGHT

A sight of real beauty and greater utility. Graceful, curved lines obtainable in no other sight.

Curved face is crowned and matted—as is the front face of interchangeable blade sight. Increased efficiency—eliminates "blur." Easily fitted. Made for most rifles. \$5.50 without hood—\$6.50 with hood.

New GLOBE Sight



Makes a perfect combination with any micrometer or receiver sight. Longer, larger globe—new and better "lighting." Non-reversible inserts—easy to change. Made for most rifles. Price \$2.50.

Ask Your Dealer!

If you SHOOT, you need Redfield sights. They're built for PRECISION shooting—the choice of CHAMPIONS of range and field for over 20 years. Ask YOUR dealer to show you the complete REDFIELD line—or WRITE US for information and descriptive literature on ANY sight you desire.

REDFIELD GUNSIGHT CORP.

3315 Gilpin St.

Denver, Colo.

HUNTERS

STOP RUST!

FIENDOIL

Best combined oil and solvent for gun cleaning—only cleans or with original patented formula—simply apply, no ram-rubbing. At your Sports Store.

WINCHESTER MODEL 21

Cost today \$73.40

\$36-25

Brand New, Packed in Factory Boxes
CHOICE STOCKS TO FIRST CUSTOMERS!
12 and 20 gauge only. A few 12 gauge with Automatic Ejectors, \$41.25. Send full amount with order and get free Canvas Case and Cleaner. \$5.00 Deposit on C.O.D.'s. DON'T WAIT—GET YOURS TODAY!
SLOAN'S SPTG GOODS CO., 88 Chambers St., N.Y.

MODEL 52 WINCHESTER, new \$42.75, with heavy barrel \$49.75. Latest Target Rifle! Winchester M54, 30'06 Heavy Barrel Rifle! Nearly Ready! Place orders now! \$79.50. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

COLT Shooting Master, excellent. Savage 23-D Hornet with 438 Lyman, excellent. Woodsman, good. Remington-Heppburn with Malcolm scope, good. Fred Blakeslee, Cazenovia, N. Y. 7-35

45 COLT NEW SERVICE, good \$13.00. 45 Smith, good \$12.50, fair \$10.00. 38 Special Smith, good \$14.00, fair \$11.00. 38 Special Colt Police Positive, good \$12.00. 38-40 Colt single action, good \$14.00. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

HORNET 23-D Savage fancy remodeled stock, sling, 438 scope, Western rear peep. Winchester, N.R.A. 54 .270 special finish, checking, black fore end tip, grip cap, 1/4 min. 48, special sling. Both excellent condition, fired very little, very accurate. \$45.00 each. L. C. Smith 12, Field grade, recoil pad, excellent, \$20.00. Mauser 9 m/m auto pistol with shoulder stock, two belt holsters, 80 cartridges, good, \$15.00. Nathan Coleman, 810 Minnesota Avenue, Kansas City, Kans. 7-35

PARKER AHE GRADE, 20 Ga. 32" full and modified choke. Excellent, \$250.00. Parker DHE Grade, 16 Ga. 32" full choke. Excellent \$95.00. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

PERFECT Fox Sterlingworth 12 gauge, 2 barrels, 20-inch and 26-inch, \$30.00. H. W. Benedict, R. D. 22, Troy, N. Y. 7-35

NEW GUNS! Savage Model 23AA, Cal. 22 Repeater \$17.75. 23D, 22 Hornet \$26.95. Savage Model 19, 22 Target Rifle \$27.95. 19H, 22 Hornet \$33.00. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

COLT Ace, very good, Call sight, extra magazine, \$30.00. Laurence F. Briggs, R. D. 24, Binghamton, N. Y. 7-35

H & R SPORTSMAN 22 Cal. 9-shot Target Revolver, single or double action. Hi-Standard 22 Cal. Automatic pistols. Write us before buying! J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

WINCHESTER Model 1907 automatic 351 oil finish, extra magazine, peep sights, very good, cost \$76.80, sell \$35.00. "Specialty" Smith double 12-32 full, ejector, single trigger, \$75.00. Super Fox 12-32" full, 3-inch chamber, \$45.00. Both new condition. A. S. Bjornson, Devils Lake, N. Dak. 7-35

WHY NOT OWN ONE OF THE FINEST RIFLES MADE? The New Sedgley Springfield Sporter, Cal. 30'06, 22 Hornet, 25 Roberts, 7 other calibers. Also made in Mannlicher type Sporter with cheek piece stock. Special prices! Free Literature! J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

NEW B&L Prismatic spotting scope, leather case. Russell Hawes, 2424 Bath, Ashland, Ky. 7-35

WINCHESTER M54, speed lock, calibers 22 Hornet, 22, 30'06, \$47.95, with 48 Lyman \$57.95. Super Grade, \$69.50. Winchester M52 Sporter \$69.50. Winchester M63, Cal. 22 Long Rifle, Automatic, \$26.95. Remington 30S, Cal. 30'06, 25 Roberts, etc., \$45.25, with 48 Lyman \$55.25. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

WINCHESTER 254 Hornet, Pacific receiver sight, scope blocks, perfect, \$50.00. W. H. Janssen, Nokomis, Ill. 7-35

NEW NOSKE SCOPES! Mascot, 3X, with mount for 22 Cal. Rifles, \$27.00. For other rifles \$37.00. Scopes only, 2 1/2 X \$34.00, 4X \$36.00. All Type "B," full internal adjustments. 10% discount. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

TWO hand-made curly black walnut Model 54 stocks, perfect, \$18.00 each. One 25 cal. Model 30-S Remington barrel, excellent, \$8.00. 3/4 cans 2300 powder, \$3.00. Henry E. Davis, Florence, S. C. 7-35

SEDGLEY'S LATEST! The Springfield Short Action Sporter. Calibers 22-3000, 22 Magnum, 25 Roberts. Write for prices! J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

ZEISS Dekaris 10X, case, straps, new, \$80.00. Mauser 7 m/m, new, double triggers, \$60.00. Remington 25 Hi-Speed automatic, special sights, like new, \$37.00. Savage latest model 99G, 250-3000, perfect, ramp front, \$32.00. Remington 5-shot automatic, 20 ga. rib, 28 barrel, full, elegant case, \$38.00. Estill, 6810 Dorchester, Chicago, Ill. 7-35

AUTOMOBILE RADIO! 5 tube "Tiffany Tone." Nationally Known! Airplane style remote control for steering post. Dustproof dynamic Speaker. \$29.90 postpaid. 10% discount. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

2 1/2" ENGRAVED Ballard with Rigby barrel, 38-55, excellent. Stevens-Pope 252 (44 1/2) 32-40, excellent. Stevens 249 (44) 32-40, action excellent, barrel good. Stevens-Pope (44 1/2) muzzle loader with false muzzle, barrel accurate. All refinished by Stevens. Stevens 22, new action with coil main spring and 2417 breech block. \$5 barrel newly re-lined by Diller. Very accurate. Remington-Heppburn Schuetzen, 15 lbs., 32-40, Malcolm scope, very accurate, excellent. S&W '17 revolver, checkered grips, mould, tools, belt and holster, excellent in, good out. Win. S.S. barrel only, 38-56. Tools, mould and 100 shells. Excellent in, good out. \$5. H. A. Haskell, Brattleboro, Vt. 7-35

THE NEW UNDERWOOD JR. PORTABLE TYPEWRITER! Standard keyboard. With case \$37.50 postpaid. 10% discount. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

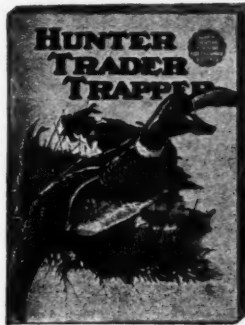
THE NEW BENJAMIN AIR PISTOL is here! Powerful, accurate, economical. Calibers .177 or .22, \$7.50 postpaid. Order Now! 10% discount. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

THE NEW ITHACA SKEET GUN, \$34.95. New Remington Express Rifle Cal. 25 Roberts, \$45.25, with 48 Lyman \$55.25. The New Smith & Wesson .357 Magnum, \$52.80. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

"WEE" WEAVER 3X SCOPE..... \$7.70
Mossberg 4X Scope..... \$7.50
Complete line of Lyman, Weaver, Noske Postpaid and Ficker Scopes. Write for prices!
J. WARSHAL & SONS, 1014 1st, Dept. B, Seattle, Wash.

THE AMERICAN RIFLEMAN

The Homiest, Newsiest Outdoor Magazine



12 Big Copies \$1.10

Hunter-Trader-Trapper

An outdoor magazine that's different, contains stories sent in by the readers themselves, written by fellows just like you, timely items from everywhere, pictures of you and your friends, your questions answered, you are bound to like H-T-T. Departments on firearms, fishing, skeet and trap shooting, coon-hunting, watercrafting, fur farming, dogs, etc. Fur prices and game laws in season. Regular price \$2.00 per year, 25c per copy at news stands. This offer brings you 12 copies (six recent back copies and one copy each month for the next six issues) and a waterproof match box free.



Waterproof Match Box FREE

This match box is built of seamless brass, nicely nicked and is absolutely water tight. Holds several days' supply of matches. Every sportsman should carry one at all times. Dry matches may some day save your life—it has done it for others. Get yours free by sending in your subscription to Hunter-Trader-Trapper today. Simply write your name and address on the margin of this ad and mail it with your dollar and ten cents today.

Hunter-Trader-Trapper, 382 So. 4th St., Columbus, Ohio

NEW MODEL SAVAGE 99T. Cal. 300, with \$36.00 Noke 4X Scope and \$16.00 mount attached. Recoil pad. Perfect condition, \$85.00. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

WESTON Universal Exposure Meter, latest type, excellent, \$16.50. N. W. Goodwin, Box 102, Jenkintown, Pa. 7-35

NEW RIFLE BARGAINS! Winchester M55 25-35, \$26.95. Winchester M62, 22 Cal. repeater, \$13.95. Winchester M54, 30-'06, \$47.95. Savage M45 30-'06, \$35.00. Free sling with each gun. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

A-1 GOV'T LEATHER SLING STRAPS 35¢, new 75¢, oil treated 95¢. Swivels 60¢ pr., Krag Bayonets 75¢, Lebel Bayonets \$1.00. Postpaid. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

THE NEW LYMAN 22 TELESCOPE SIGHT for 22 Rifles, \$12.50. "Wee" Weaver Rifle Scope, \$7.00. Mossberg 4X Rifle Scope, \$7.50. New Pecker 4 Power 10" Small Game Scope with 1/4 minute click mounts, \$37.80. Weaver 3-30 Scope, \$22.50. Lyman 8X, 10X Targetpot, \$54.00. All postpaid. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

10% DISCOUNT on Lyman, Marble, Redfield, Pacific and King Sights, Lyman, Noke, Fecker, Weaver Rifle Scopes. Orders filled promptly. J. Warshal & Sons, 1014 1st, Seattle, Wash. 7-35

SELL OR TRADE

COLTS 6 1/2" Woodsman, \$16.00. 9 m/m 8" D.W.M. Luger, \$20.00. 25-20 Savage Sporter, \$16.00. 22 H&R 9 Shot, \$7.50. Stopwatch, \$4.00. Lyman 1A, \$1.50. WANTED—Cash or trade, Hornet, Tools, Scope, Binoculars. McKinley, 31 North Schenley, Youngstown, Ohio. 7-35

REMINGTON Auto 12, good, \$25.00. Heavy barreled Hornet Marlin Ballard, excellent, \$30.00. Savage 22 High-power, fair, \$12.50. Winchester 12, M97, poor, \$8.00. Krag Brown Silencer, poor, \$8.00. WANTED—Eiderdown Robe; Spotting, Target and Hunting Scope; 30-06; M52; what? Letters answered. Roy Kempley, Van Nuys, Calif. 7-35

COLT S. A. ARMY 38 Special, 5 1/2", very good, \$23.00, or B&L 20X, like condition. Harvey Logue, Berlin, Pa. 7-35

IVER JOHNSON .22 blued 4"; AMERICAN RIFLEMAN '32-'34; Architectural Books; Magazines. WANTED—P.P. 22; K-22, Ronowski, La Grange, Ill. 7-35

WINCHESTER Custom Pigeon grade 16 x 28" full, ventilated rib, new condition, \$175.00. Ithaca 12 x 26" Skeet, ejectors, single trigger, 6 1/4 lbs., excellent, \$40.00. WANTED—High grade double duck gun. C. F. Johnson, Waverly, S. Dak. 7-35

BROWN & SHARPE micrometers, inside 2" to 12" by thousands, case excellent, for 52 Winchester heavy barrel with Lyman scope, must be very good. A. Moore Harvey, Pulaski, Va. 7-35

32-20 SAVAGE Sporter, good, \$15.00. 380 Savage Pistol, perfect, \$15.00. 32 Colt Pistol, good, \$10.00. WANTED—12 or 20 Double, 25 Remington or what? W. H. Hoover, Harrisville, W. Va. 7-35

NEW! LYMAN 22 JR. FIELD SCOPE \$12.50
2 1/4" power, with mount. Designed for .22 Rifles. Bausch & Lomb lenses. Windage and elevation adjustments. Special prices on other Postpaid scopes! C. O. P.'s Bldg. J. Warshal & Sons, 1014 1st Ave., Dept. B, Seattle, Wash.



"HAWK" Scope Stand

Cast aluminum, crystal finish, weight 16 oz., height adjustment 18 to 28 inches, long saddle, fits any scope, B&L, joint adjustment, constant tension on Ball, legs held RIGID when changing position of stand. Price, \$4.98. Money refunded if not satisfactory. HOWARD F. HAWK GUN CO. READING, PENNA.

NEW S&W 38-44 Super Police, 5", \$25.00. WANTED—K-22; W52. Daniel Morrison, Caribou, Maine. 7-35

WINCHESTER 94, 38-55, half mag. good, \$12.00 or trade for 22 cal. A. L. Sebastian, North Wilkesboro, N. C. 7-35

WINCHESTER 54, 30-06, new N.R.A. stock, Lyman 48, perfect. Stevens 335 double 12, good. Rem. Enfield, remodeled, excellent. Write for information. Yellowstone Gun Co., Columbus, Mont. 7-35

REMINGTON Model 8-35, excellent, \$40.00. Winchester 1873, 44 caliber, poor, \$6.00. Winchester 1906, 22 caliber, good, \$7.00. Left hand Special Stock 22 Springfield, \$10.00. WANTED—Springfield 20 gauge double, tools, moulds. Parmelee, 131 Lincoln, Monrovia, Calif. 7-35

COLT: 44-40 flat top target; 38-40 Bisley; 45-M1909; 44-40 pump rifle. S&W: 35 auto; 44 Russ D.A.; 32 H.E.; 32-20 M&P; 45-M-1917. Luger 9 m/m 8"; Glisenti 7.65; H&R 25 and 32 autos; Winchester 44 R.F. M'66; 44-40 M'73; 45-70 M'86; Blake 30-40; Rigby .577 single; H&H .450 double; 8 ga. single American. Many others. Stamp please. Calvin Goddard, 3533 Quebec, Washington, D. C. 7-35

EXCELLENT Auto Graflex Jr., 2 1/4 x 3 1/4, Bausch & Lomb f. 4.5 Tessar, roll film, adapter, sole leather carrying case, \$50.00. Ideal mould 308329, good, \$2.25. Ideal full length resizing tool 30-40, \$1.25. WANTED—Fecker 1 1/4, 10 or 12, 3/4" mounts, or what? L. B. Moyer, 50 Tyler St., Highland Park, Mich. 7-35

45 AUTO, King adj. rear sight, gold bead front, perfect, shot 50 times, 5 new magazines, 300 shells. Make offer. WANTED—Shooting Master or 38-44 S&W or Telescope and mounts for Springfield 30-06. Ralph Jones, Martinsburg, Iowa. 7-35

WINCHESTER Cartridge Board, 45 years old, complete, excellent, \$25.00. WANTED—38 Special tools, lubricator, etc., or what have you? George Gustin, Wabash, Ind. 7-35

BROWNING, 12, Auto, full, ribbed, 30, \$45.00. WANTED—Light Browning ribposed. Dr. V. E. McPherson, Neligh, Neb. 7-35

PARKER Trap Gun, 12 ga. dbl. auto, ejectors, B.H.E. grade, cost \$330.00, like new, \$100.00. WANTED—3 bbl. in good condition or other guns of equal value. Herman Meitzner, 67 N. Broadway, Mt. Clemens, Mich. 7-35

F. WESSON 38, Remington rolling block 40-70, both rifles as illustrated page 10 May RIFLEMAN, Savage 23A oiled stock checkered, sling, new sights with or without mount for Zeiss scope. Cash or trade. Stamp for description. A. D. Campbell, Kirksville, Mo. 7-35

EXCELLENT—30-S Rem. 25 Roberts, G&H base, 48-R, \$48.00. Excellent Buffalo Newton, 30-06, serial #1, very fancy, set trigger, recoil pad, \$70.00. Very good M/54 Win. Hornet, 48-W, \$47.00. WANTED—52 Speedlock, 17-A & 48-J; Parker V.H.E. 12-28; Violin. Thur Smith, Newark Valley, N. Y. 7-35

Parker-Hale Accessories

New Shipment
Just Received



"Dead Center" Six Hole Eyepiece, midjet or regular size.....	\$2.25
Celluloid Covered Cleaning Rods, ball-bearing handle, jag tip, .22 cal.	2.00
Same Rod, .30 cal.....	2.25
Plain Plug Tip, .22 cal.....	.30
Jag Tips, .22 or .30 cal.....	.30
Bronze Wire Brushes, .22 or .30 cal..	.40
Bristle Brushes, .22 or .30 cal.....	.40
Dreadnought Bristle "Scourer," .30 cal.50
Dreadnought Bronze "Scourer," .30 cal.50
Wool Mops for oiling, .22 or .30 cal.30
Peep Sight Reamers.....	1.00
Cleaning Rod Stops, .22 or .30 cal..	.50
"Valvespout" Oilor, 1 oz., transparent, no leaks and refillable.....	.50
"Valvespout" Oilor, 4 oz., metal, no leaks and refillable.....	.75
Randle Shooting Mitts, large, medium and small	1.50
Randle Non-slip Metal Sling Keeper..	.75
Randle Scope Stand.....	5.75
Randle Ammunition Blocks, .22 cal..	.50
New Service Slings.....	.75
Wilder Sling Pads.....	.75
Sling Tension Equalizers.....	1.00
B. & L. Single Draw Tube Scope, 20X 27.00	
B. & L. Prismatic Scope, 19.5X eyepiece	49.50

All above items sent prepaid

Official N. R. A. Targets

General, reloading and target price lists sent on request

THURMAN RANDLE & CO.

331 N. St. Paul Street
Dallas, Texas



MOSSBERG 4X Scope \$7.50

Complete with Mount and Eye-cup!

Step up your scores with this amazing new telescopic sight, the Mossberg No. 6. Fits most all small-bore rifles. The one-half minute precision micrometer adjustment is located forward to reduce variation in position of eye-piece aperture. Scope can be removed from rifle without tools. Length, 15 1/2 in. Lens, 1/4 in. diam., 4-power. Cross-hair reticule is standard, but post type can be supplied. Compare this scope with others for sharpness of definition, light transmitting qualities and brightness of image. First scope of this quality ever offered for \$7.50 complete with mount and eye-cup.

Write for new illustrated folder

O. F. MOSSBERG & SONS, INC.

367 Greene St.

New Haven, Conn

SPLAT Attention GUN CLUBS

SPECIAL 2-for-1 OFFER TO CLUBS

Here's your chance to get new members, more revenue, and at the same time introduce this new fascinating game for RIFLE and HANDGUN SHOOTERS—the companion game to Skeet. SPLAT is officially endorsed by the National Rifle Association and is being shot in leading tournaments. You owe it to your club to write today—NOW—for complete information.



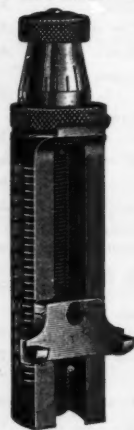
Note: We also have the Individual Shooter's Pack: 5 Target Cards; 50 Target Buttons; 50 1 1/4-in., 100 2-in., 50 3-in. Bustible Bullseyes; Score Cards; Instructions, etc.—ONLY \$3.00. At your Dealer's or Direct—Postpaid.

SPECIAL CLUB PACK OFFER EXPIRES JULY 15

DON'T MISS IT

STOWELL TARGETS, INC. Sole Manufacturers LOCKES MILLS, MAINE

O'HARE MICROMETERS



For the Springfield Rifle
The United States Government
Service Teams
National Guard Teams
Civilian Rifle Clubs
All use the O'Hare
Micrometer—Price \$5.00
Conroy's Rear Sight
Protector

Made of heavy gun metal
with hinged lid, and can be
put on or taken off without
altering the sight adjustment
or windage adjustment.
It also prevents the black
from being rubbed off. Price,
\$1.00 each.

O'Hare Improved Locking
Front Sight
Cover made so as to fit tight;
no danger of loose fitting or
allowing removing or rubbing
off the black from tip of sight.

Price \$1.00
I Save You Money
My No. 10 Catalog showing
cuts of more than 400 accessories
of interest to riflemen.
Send 15c in stamps today for
your copy.
America's Largest Manufacturer
and Importer of Rifle
Accessories

P. J. O'HARE

552 Irvington Avenue Maplewood, N. J.

HATCHER'S NEW BOOKS

Textbook of Firearms Identification.....	\$7.50
Textbook of Pistols and Revolvers.....	4.25
Modern Gunsmithing, Baker.....	4.50
.22 Caliber Rifle Shooting, Landis.....	3.75
Book of the Springfield, Crossman.....	4.00
Military and Sporting Rifle Shooting.....	4.50
American Pistol Shooting, Fraser.....	5.00
Modern Shotgun & Loads, Askins.....	4.00
Wilderness Hunting & Wildcraft, Whelen.....	3.75

Send for descriptive catalog

Small-Arms Technical Publishing Co.

Box 18, Marines; Onslow Co., North Carolina



PACIFIC KRAG PEEP SIGHT
Easily adjustable for
windage or elevation.
Made to stand hard
usage. In great favor
with hunters. Price in-
cludes aperture disc. C. O. D.'s
filled, 10% discount to members.
J. WARSIAL & SONS
1814 1st Ave., Seattle, Wash.

\$3.00

Postpaid

23-D HORNET, checked, sling, bases, oil finished, \$25.00. Trade for 22 rifle, 250-3000, A-5, or ? R. D. Crow, Goldsboro, N. C. 7-35

95 WINCHESTER, 35, Lyman 21, case, good, \$18.00. 92 Winchester, 32-20, case, good, \$15.00. Savage Sporter 25-20, Lyman 42, inside very good, outside good, \$12.00. Colt 22, P.P. Target, holster, very good, \$15.00. New Defender, perfect, \$13.75. W. B. Phelps, Independence, Iowa. 7-35

ALTIMETERS, \$4.98. Marching Compasses with leather case, 90¢. Sports Trade Shop, 4300 Beverly Blvd., Los Angeles, Calif. 7-35

THOUSAND '28 M1, 2 1/2¢. Exceptional .44 Rem. Percussion, \$10.00. TRADE—M12-12 ga. for double. WANT—22 O.M., 5A scope, Draw tube. L. H. Anderson, 5720 Addison, Chicago. 7-35

.30 LUGER, pre-war D.W.M., American Eagle, grip safety, very good, \$23.00, or Colt 1917 and cash. Stall, 946 N. Meridian, Indianapolis, Ind. 7-35

REMINGTON Hepburn Hornet, Diller relined, fired 81 times, tang peep, excellent, \$30.00. Lyman 5A, 3/4" mounts, excellent, \$35.00. Win. S.S. 410, checked, excellent, \$12.00. Scott 10 ga. dbbl. hammer, Damascus, engraved, fair, \$12.00. Win. 52 sporter stock, checked, oil, \$5.00. WANT—B&L Spotter, 30-06 tools. Receiver sight Springfield. F.1.9 Lense Stewart Warner 8 m/m. R. A. Wolcott, 814 W. 5th, North Platte, Nebr. 7-35

45 COLT Auto, good, \$12.00. Colt 45, 1917, good, \$12.00. S&W 45, 1917, good, \$13.00. Colt 45 S.A., good, \$10.00. Colt P.P. 32, good, \$12.00. S&W M&P Target, good, \$15.00. S&W 22 Straightline, fine, \$24.00. S&W M&P 38, good, \$12.00. Lugers 30 and 9 m/m, good, \$12.00. Colt 32 Auto, fine, \$10.00. Colt Bialy 45, \$12.00. Winchester 10 ga. 1901, good, \$20.00. 4E Ithaca single trap, fine, \$55.00. Fox K, fine, \$50.00. Zeiss Delfortmo, fine, \$50.00. Targetspot 10X, new, \$50.00. 3/4 Fecker, plain mounts, new, \$35.50. Unertl 1 1/4, Fecker mounts, new, \$60.00. Win. 32, slow action, fine, \$22.00; speed action, fine, \$30.00. B.S.A., good, \$25.00. Win. 52 stock, Semi-Beavertail, fine, \$5.00. Smith Bros., Gun Store, Rochester, Pa. 7-35

SPRINGER Spaniels A.K.C. eligible, \$15.00-\$50.00, some championship sired to trade for firearms. Win. 12 auto, excellent, trade for Win. 20 pump, same. Want Hornet, 22-32, 438 Lyman, etc. Garrett F. Huizenga, Zeeland, Mich. 7-35

WINCHESTER 52, heavy barrel, 48J, 17A, Parker eyepiece, strap, match stock, absolutely factory condition. Woodsman, new, \$27.00. Savage 1919, good, \$10.00. New Malcolm scope "C" Mounts, \$17.50. K-22, new, \$31.00. WANT—Fine Hornet rifle, German Army Glasses, high grade binoculars, Fecker or Zeiss scope, prismatic spotting scope or what have you? Write James Bunney, 208 North Glen Oak Ave., Peoria, Ill. 7-35

2 KRAGS, \$14.00 and \$12.00. Win. Carbine 32-20, \$12.00. Peabody, fine; 2 muzzle loading shotguns; Swiss Vetterli, fine; 25 Stevens Favorite, \$6.00; Fecker 8X, 1 1/4; Stevens 44, 247, 25-21, fine. WANT—B&L Prismatic; Win. 52 Speedlock. Best offers. Stamp. Howard Keene, Friend St., Kittery, Maine. 7-35

EXCELLENT Winchester 95, 30-06, Lyman 38, less than 250 rounds fired, \$35.00, or trade for 4X Noske or Fecker game scope. Paul Middlested, 4574 Park Blvd., San Deigo, Calif. 7-35

HOHNER 48 Bass Piano Accordion, \$30.00. WANT—30-06 N.M. Springfield. Correspondence invited. Wesley Hale, 825 Broad, Lake Charles, La. 7-35

L. C. SMITH speciality 12 ventilated single 32 full, auto ejector, pistol grip, rubber recoil, beaver-tail forearm, perfect, \$55.00. Remington 16, 28 full 3 shot sportsman automatic, new, \$40.00. L. C. Smith 12 double 26 open skeet, very good, \$20.00. 4 power hunting scope and mounts, perfect, \$10.00. Jay Wright, Newark, N. Y. 7-35

COLT Woodsman 4 1/4", factory condition, \$26.00. Colt Officers Model, 38-6", factory condition, \$26.00. Colt New Service Target 44 Special, factory condition, \$33.00. Colt Woodsman 6 1/2", very good, \$22.00. Colt Official Police 38-4", good, \$16.00. Smith & Wesson M.P. 38-4", good, \$16.00. Colt P.P. 38-4", good, \$13.00. Winchester model 12, 16-28, excellent, \$25.00. Stevens Model 55, factory condition, \$5.75. Stevens model 053, factory condition, \$5.50. Pearl, Ivory and Stag stocks, Targets, Scopes and Accessories. George F. Herold Co., 7 Center Market Place, N. Y. City. 7-35

38-55 WINCHESTER Scheutzen rifle, 30 in. No. 4 octagon bbl., double set trigger, pistol grip stock. Scheutzen butt plate, leather case, excellent, \$35.00 or trade for Zeiss 18X scope. Kipp, 1059 O'Farrell, San Francisco, Calif. 7-35

H&R SINGLE shot, 10" barrel, standard grips, factory condition, \$17.50. WANT—10X Shooting coat or Loder and Wilson scope stand. Willard W. Decker, 320 E. Orleans St., Otsego, Mich. 7-35

WINCHESTER 54, caliber .30 W.C.F., Lyman 48, bore perfect. WANT—38 Spl. Colts National Match, Target? TRADE—Colts 6" P.P.S. 38 Spl., good, for .30-30. Wm. Keys, Medford, Wis. 7-35

NEW S&W 357 Magnum; Winchester 52 Sporter; Targetspot; B&L Spotting Scope. Earl Mather, Waupaca, Wis. 7-35

TRADE

TRADE—Colt Police Positive 38, 6" bbl. blue, Walnut grips, very good, some cash. WANT—K-22, Woodsman. Harvey, 329 Prospect St., Norwich, Conn. 7-35

HAVE large selection of musical instruments, want to trade for firearms, binoculars, etc. Want 52 speed sporter. George Ross, 540 Sutter Street, San Francisco, Calif. 7-35

TRADE—German Automatic Pistol .30 Cal. (7.65 m/m), excellent, 3" bbl. Purchased Germany 1921. Fine holster, clip WANT—Win. 34 Hornet or 270 or other fancy rifle. John T. Phelan, Fort Benton, Mont. 7-35

TRADE—Joseph Higham B flat cornet, "Contesting" model, in plush lined case, good condition, for Colts Buckers Special, 22 cal., in new condition. Dr. Rhodes Burrows, 48 West Main St., Mystic, Conn. 7-35

RARE COLLECTION mounted game heads; also pet squirrels. Trade for gun; trailerhouse, telescope sight. Fred W. Fee, Custer, S. Dak. 7-35

TRADE—Perfect "Super Fine Wave Generator" for Browning Automatic, 1917 Revolver. What have you? E. J. Hofheinz, Box 544, Austin, Texas. 7-35

SINCLAIR (English) Una Camera 2 1/2 x 3 1/2 with Ross combinable lens, F.5.5 and F.11, with leather case, Graflex roll holder and film pack adapter. Cost new, \$199.00. Will exchange for High Grade Springfield or Mannlicher 6.5, in perfect condition. Fiala, 47 Warren St., New York City. 7-35

TRADE—330 various outdoor magazines for Enfield, as issued. Wm. J. Seymour, Hinton, Iowa. 7-35

Fine Violin Outfit, value \$40.00. WANT—Good deer rifle. A. P. Brothers, Kane, Pa. 7-35

WINCHESTER 53, 25-20, excellent. WANT—Colt Woodsman or Super 38. Dr. D. L. Ellrich, 125 E. State St., Westport, Conn. 7-35

BENJAMIN AIR PISTOL

The New Benjamin Air Pistol is here! **\$7.50**
Powerful, accurate, economical. Calibers .177 or .22. Order now! 10% discount. Postpaid J. Warshaw & Sons, 1814 1st Ave., Dept. B, Seattle, Wash.

TRADE—Model T Springfield No. 1314451, excellent, for complete Canadian or Scotch Highlander Officer's dress uniform with feather bonnet, preferably "Black Watch." O. D. Lewis, East Windsor Hill, Conn. 8-35

TRADE—38 Special S&W square butt Model K, 5th fair, for 438. Philip Inglis, Scotland Road, Spring Valley, N. Y. 7-35

TRADE—45 Automatic, 1911, good, with holster, for 22 Marlin lever, excellent, or what? Post Henneby, Boyd, Mont. 7-35

TRADE—30-03 refinished Bannerman Springfield, shot 20 times. WANT—22 Auto rifle. Charles Kiddle, Lake Forest, Ill. 7-35

TRADE—Colt Automatic, Cal. .38. Military Model, 6 inch, excellent. WANT—K-22 or Officers 22, latest model, excellent. F. Mason, N. 8th St., Olean, N. Y. 7-35

TRADE—Used Standard 52 barrel, inside perfect, outside worn, also fine handmade beavertail stock (Std. 52), for new Springfield M-1 barrel. James Keleher, Bishop, Calif. 7-35

HAVE Camera and Radio equipment. WANT—Guns, scopes, reloading tools. Dr. Winfrey, Evergreen, Colo. 7-35

TRADE—New Remington 30 Auto rifle with leather case, for Targetsport or Fecker 1½ with mounts. Jack Trojan, 1567 West Oklahoma Avenue, Milwaukee, Wis. 7-35

TRADE—S&W 32-20 target, excellent outside, good bore, for 44 Special 5-A or Woodsman. Winchester M90, near perfect, \$14.00. F. C. Culler, 32 N. Arch St., Alliance, Ohio. 7-35

WANTED

WANTED—16 Gauge Model 12 Winchester. Trap Grade or better. Give full particulars in first letter. Frank Findley, Box 551, Vernon, Texas. 7-35

WANTED—Model 1895 Winchester 35 or 405 caliber, serviceable condition. Lowest for cash. Bert A. York, Box 777, Huron, S. Dak. 7-35

WANTED—Mannlicher and Mauser Sporting Rifles, all calibers. State condition and cash price. Hudson, R-52 Warren Street, New York. 7-35

WANTED—Smith & Wesson .38 Military and Police Special Target, factory condition only. Price must be right. Inspection permitted. Will pay cash. Shelby W. Wishart, M.D., Central Union Bank Bldg., Evansville, Ind. 7-35

WANTED—Parker Bros. double hammerless, 28-gauge or 410 bore. Inside of barrels must be free from pits or defects. R. K. Brown, Campus Bldg., Ann Arbor, Mich. 7-35

WANTED—38 S&W Spl. Outdoorsman, fine, bargain. R. N. Garrison, R. 22, Lula, Ga. 7-35

WANTED—Ithaca single trap, No. 4-E or 5-E, 30 or 32 barrel. Chet Johnson, Vermillion, S. Dak. 7-35

WANTED—Automatic, twelve gauge, cheap; Good Colt Ace. State cash price and condition. J. M. Malone, 117 3rd Ave., Pittsburgh, Pa. 7-35

WANTED—Reloading outfits, 38 Special; also 8X52 MM; describe fully with lowest cash price. Carruthers, 4564 W. Papin St., St. Louis, Mo. 7-35

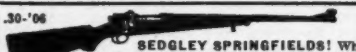
WANTED—Double rifle using American ammunition. Prefer 30-40 over-under, others considered. Books: Crossman's Small Bore Shooting; Armswear, etc. Describe fully quoting lowest cash price. R. E. Van Syckel, 30 Glencoe Road, Upper Darby, Pa. 7-35

WANTED—D.C.M. Sporter or National Match for cash. Write description, price. E. M. Hinsdale, 509 Watauga Ave., Knoxville, Tenn. 7-35

WANTED—Guns, rifles, pistols, cameras, binoculars, outboard motors, etc. Bought, sold and exchanged. Wanger's, 522 Market Street, Philadelphia, Pa. 7-35

WANTED FOR CASH—Krag's, Springfield rifles; also cartridges. 45 Auto. 30-06 Gov't. 30-40 Krag, any issue; state price and quantity. Hudson, R-52 Warren Street, New York. 7-35

WANTED—Screw cutting lathe, very good condition, 9 inch swing, 30 inch centers or larger. Give description and cash price. Carl H. Sanson, Buffalo Gap, S. Dak. 7-35

30-06

SEDSLEY SPRINGFIELDS! Why not own one of the finest Sporters made? .30-06, .22 Hornet, .25 Roberts & 7 other calibers. Also built in Mannlicher type Sporters. Write for prices! J. Marshall & Sons, 1014 1st Ave., Dept. B, Seattle, Wash.

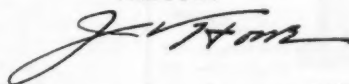
A Message to Members of the National Rifle Association from JAMES V. HOWE

It is a distinct pleasure to advise my many friends that since my affiliation with the National Target & Supply Company, I have equipped a splendid new gunsmith shop with the most modern of tools and machinery, and it is a source of personal satisfaction to offer its splendid facilities to you, the members of the National Rifle Association. As discriminating shooters who take pride in the ownership of your guns, you will, I am sure, appreciate having at your service a shop where the finest makes of guns can be safely entrusted for all needed work. The following is a brief list of some of the work we are prepared to undertake.

Reconditioning and repairing all makes and models of guns.
Restocking rifles and shotguns in fine woods especially selected for figure and density of grain.
Furnishing fine telescopes and mounts and fitting them to any rifle.
Fitting front ramp sight with any style front sight. Fitting leaf sight bases and leaf sights up to four leaves.
Repairing and refinishing antique arms for museums or private collections.
Adjusting trigger pulls, testing and targeting arms of all makes.
Reboring shotgun barrels, cleaning and tuning actions.
Rifling shotgun stock alterations. Fitting any make of recoil pad to shotguns and rifles.
Special experimental work under customers' specifications.

Write me about your gun problems and we will work them out together, or better still, send your guns to me for examination and estimate. When you are in Washington, come to see me and inspect our new shop

Cordially yours,



The National Target & Supply Co. 1249 25th St., N. W.
Washington, D. C.

WANTED—Left hand bolt action 30-06 rifle, state condition; also Enfield sporter stock, Lyman for Krag, Enfield. C. R. Hoskins, R. D. 4, Anaheim, Calif. 7-35

WANTED—Springfield Sporter, give number, price and state condition. R. L. Olson, Glasco, Kans. 7-35

WANTED—National Match Springfield, excellent condition. State receiver number, stock, approximate use and price for cash. Francis Bentrup, 5131 Lexington, St. Louis, Mo. 7-35

WILL PAY CASH for the following, but must be in perfect condition, no junk wanted. Ballard, Pope-Stevens, Zischang or Schoyen rifles in following calibers: 22 long rifle, 25-21, or 32-40, with moulds and accessories. Full description required; if possible, photograph. Arthur Chahn, Logan, W. Va. 7-35

WANTED—One or two M87 Winchester heavy duty C. F. S. S., actions, perfect mechanically, modern production. G. R. Douglas, P. O. Box 143, Belle, W. Va. 7-35

WANTED FOR CASH—Colt Woodsman, Official Police, Officers Model, Ace, K-22. Also 38 Special Target Revolvers. State condition and price. Hudson, R-52 Warren Street, New York. 7-35

WANTED—For cash. 500 flare and parachute cartridges for Webley & Scott 1½ inch bore signal light pistol. John Given, Jr., Manchester, Vt. 7-35

WANTED—Very good S. & W. 22-32, K-22, 38-44 Outdoorsman. Cash. Nelson Sowers, 54 Shrewsbury, Red Bank, N. J. 7-35

SCHUETZEN rifle, Winchester, Ballard, Stevens, fine outside, describe fully. Wm. Rolston, 1987 Buena Vista, Detroit, Mich. 7-35

WANTED—22 O. M., K-22, \$21.00; 52 or Stevens, with 438. Describe fully. Ball, S-73, Sherrburne, N. Y. 7-35

WANTED—Mannlicher-Schoenauer Carbine, 6.5 m/m.; state condition and type of sights. Also Colt Bankers Special, .22 cal. Kenneth Mueller, 5253 Berteau Ave., Chicago, Ill. 7-35

WANTED—Stevens No. 47, No. 49, No. 52, No. 56 Rifles. Also sound or broken stocks for same. Geo. Schmeling, Germantown, Wis. 7-35



Sure, You Can Do This

You could at 5 yards, couldn't you? Easily! Well, then, cut 100 yards down to apparently 5 yards with this remarkable instrument—

20-Power Spotting Scope, \$12.50

Even at 100 yds. a .22 hole is plainly visible in the black. You feel you can almost reach out and touch target. High scores made easy this way. Prove it yourself under our money-back guarantee. If you don't find this a wonderful buy, return it. Thousands in use. Order yours.

Only \$7.50 for This Adjustable Tripod

Steady in strong wind. Adjusts 9 to 14 inches. Locks at any angle. Fits almost any scope. Same money-back guarantee protects you. Order now.

Other telescopes: 6-power, \$2.50; 10-power, \$7.50; 15-power, \$10.00; 20-power, \$12.50; 25-power, \$17.50; 35-power, \$32.50; 45-power, \$47.50—All at dealers or direct postpaid (or C. O. D.) Money-back guarantee.

Write for Free Catalog

Wollensak Optical Company, 766 Hudson Ave., Rochester, N. Y.

Wollensak TELESCOPES
MICROSCOPES
BINOCULARS

IMPROVED BULLETS

are now available for all high-power rifles ranging in caliber from .25 to 8 m/m and in types and weights to fill all requirements of the sportsman in hunting any size animal from woodchuck to moose. Their uniform fine accuracy and dependability will increase the effectiveness of any high-power rifle.

Western Tool and Copper Works
P. O. Box 656 OAKLAND, CAL.

RE-SIGHTING RE-MODELING RE-LOADING

PACIFIC
GUN SIGHT
CO.



\$20.50
and
\$22.50

"PACIFIC" SPEED TOOL

You can't use cheap reloading tools if you expect to get accuracy. With maximum loads you must work to perfect dimensions in your dies. You can only get this super-accuracy with "PACIFIC" custom-built tools. Remember, each tool is built to your specifications. "PACIFIC" dies are made of high speed tool steel, and they will full length re-size.

"PACIFIC" SCALE

Sensitive to less than one-tenth of a grain



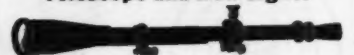
Price \$6
With Weights \$7
Weights Alone \$2

RELOADING SUPPLIES

We can save you money on standard brands. Tell us your requirements and let us quote you prices.

SIGHTS

Telescope and Iron Sights

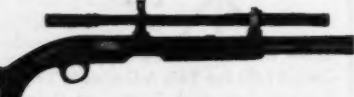


Send for Latest Catalog

Send 10¢ which partially covers the cost of publishing and mailing—the 10¢ will be refunded on your first order.

PACIFIC GUN SIGHT CO.
355 Hayes St., San Francisco, Calif.

UNERTL SMALL GAME AND GALLERY SCOPE



A high grade achromatic scope in 3, 4, 6 power; 18 inches long, 11/16" objective with caps, \$20.00, less mounts.
1 1/4" OBJECTIVE TARGET SCOPE in 8, 10, 12, 14 power, 24 inches long; highly light-gathering and own precise optics in all scopes, with recoil absorber and caps, \$55.00, less mounts.
PISTOL GRIP ATTACHMENTS for M.52, \$1.25. RECOIL ABSORBERS for scopes, \$3.00. Any scopes repaired or altered. Ask for folder.

JOHN UNERTL.

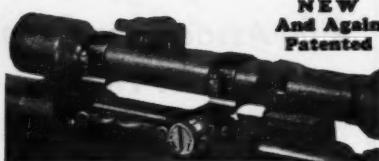
2702 Sherlock St., N. S., Pittsburgh, Pa.



U. S. Army Prismatic
Rifle Sight and
Observer's Scope

\$7.50

Complete with Rifle Mounting, Leather Case.
Army Krag Rifles, 30/40; U. S. Army, Oil Preserved, Leather Gun Slings, new, 50¢ ea. or 95¢ doz. Used, 25¢ ea. or 32.50 doz. Rifle parts, Camp Equipment, Army & Navy Surplus Goods. Send 10¢ for NEW, complete, 1935, big catalog. Refunded on purchase of \$1.00.
Globe Sales & Mfg. Co., R-624, Broadway, New York



NEW
And Again
Patented

All You 'Scope Users Want This NEW Griffin & Howe Lower Q. D. Mount with NEW Micrometer Windage

SEND at once for free large, clear photograph showing our new improved double-lever, quick-detachable Griffin & Howe telescope sight mount, with full description and price. Shown above on Remington Model 30 S rifle, replacing Lyman No. 48 iron sight—with interchange of 'scope and iron sight in 10 to 15 seconds. We have improved the locking, giving wider, firmer security. We have lowered the 'scope brackets, so your 'scope just clears rifle's receiver. And we have provided a fine, strong, dependable, graduated micrometer windage adjustment, giving minutes of angle, with click setting. Large knurled thumb-screw adjustment, clearly marked, coin slotted and with locking set-screw. Get in on first deliveries right NOW. Write TODAY to Griffin & Howe, Inc. Makers of Fine Rifles, 202-R East 44th Street, New York. FREE folder gives details.

Shoot Crows for Sport and Practice



In defense of nesting game and song birds, wage war against these egg-stealing black rascals. Get O.H.'s Crow Lure today, consisting of 1 (16") Owl, 3 crow decoys, and 1 crow call, complete \$5.85. O.H.'s Famous Hard Rubber Game Callers are Natural Toned. None better regardless of price. New Mallard call \$1.25; Regular duck call \$1.00; Goose call \$1.50; Hawk call \$1.00; Crow call \$1.00; Red Cedar Turkey call \$1.00; if your dealer cannot supply you, send direct. P. S. OLT, Dept. A, Pekin, Illinois

WANTED—PARTNER with small capital and practical experience as metal or wood worker. Experienced Gunsmith preferred. Wonderful opportunity for a good man. Tremendous increase in nation wide business demands more help. State qualifications first letter. Ad. L. Forke Co., New Braunfels, Tex. 7-35

WANTED—Cash for excellent 16 gauge shotgun. Describe fully. E. S. Hahn, 3535 Armitage Ave., Chicago, Ill. 7-35

WANTED—Used Leica Camera, removable lens type preferred; Mirakel Pocket Binocular, five power preferred. Perfect operating condition. Cash. W. W. Smith, North Lewisburg, Ohio. 7-35

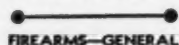
WANTED—Two men, one an experienced stock maker, and the other a first class gunsmith on metal work. When selected must be capable of working on the best grade of arms of American and foreign manufacture. Write full details of your history and experience. National Target & Supply Co., 1249 25th St., N. W., Washington, D. C. 7-35

WANTED—Reloading Tools for 250 or 30-06. State lowest price in first letter. Wm. Brado, Route 5, Rome, N. Y. 7-35

WANTED—Sharps-Borchardt rifle, or complete action. W. H. Janssen, Nokomis, Ill. 7-35

THE TRADING POST

Bargain lists and announcements by the makers and distributors of everything used by active outdoorsmen and sportsmen collectors. Advertisers in this section are required to furnish at least one bank and two business references. We believe they are all straight shooters and thoroughly reputable, but we request an immediate report of any unsatisfactory dealings.



FIREARMS—GENERAL

CLOSING OUT OUR GUN BUSINESS. Chance of a lifetime to pick up a high-grade gun at less than cost. Our over/under trap and field, 3-bbl. guns, double rifles and deluxe magazine rifles must be sold. Send stamp for list. Baker & Kimball, 278 Broadway, Lynn, Mass. 7-35

SEQUOIA gun bluer guaranteed factory job, \$1.00. American agents Mannlicher-Schoenauers, Walther's. Lowest prices. Imported arms and parts. Sequoia Importing Co., 53 Market St., San Francisco; 419 American Ave., Long Beach, Calif. 7-35

"BIG BARGAIN" 380 ONLY! Brand new Winchester Hand traps. Regular price, \$2.00. Special while they last, 60¢ each. Hudson, R-52 Warren Street, New York. 7-35

NEW WINCHESTER 34 HORNETS, \$45.00; with Lyman 48 sight, \$54.50; also in 30-06 caliber. New Remington 30A, \$42.50; with Lyman 48, \$52.50; all calibers, including 25 Roberts. New Savage 19 N. R. A., \$26.75. New Winchester 69, with peep sights, \$9.95. FOLLOWING USED BARGAIN WINCHESTER Model 12, with raised matted rib, 12-30 full, perfect throughout, \$32.50. Send stamp for new and used gun lists. John J. Tobler, 507 32nd St., Union City, N. J. 7-35

AS NEW late model 52 Winchester, \$35.00. Remington 12 automatic, \$22.00. Winchester 30-30 carbine, \$13.50. Officers Model 38 target, \$17.50. Smith & Wesson 22-32, \$16.00. D. A. Colt 38 and 41 Revolvers, \$8.50. 38-40 and 45 Colt Bisleys, \$12.50. Colt Pocket Positive 32, \$10.00. Oran Delaney, Greenville, Tex. 7-35

WILL PAY CASH for shotguns, target 22's and 30-06 rifles, or trade in Colts and S. W. revolvers for same. Fred X. Johnson, Mar-seilles, Ill. 7-35

MANNLICHER CARBINES, 18" barrels, 6.5 m/m and 9 m/m. Both excellent, \$55.00 each. Hudson, R-52, Warren Street, New York. 7-35

HEAVY SUKALLE barreled 52's, speed lock and Lyman sights, \$50.00 and \$60.00. 30-06 Remington N. R. A. Stock, Zeiss 2 1/4" Western mounts, \$65.00. B. S. A. Hornet, 48 sight, pistol grip stock, \$40.00. 25 Remington Roberts D. C. 12, checked stock, recoil pad, 48 Lyman, \$50.00. 25 Remington Roberts barrel and action only, \$25.00. 7 m/m barrel and Mauser action in bright \$25.00 new barrels, 38 Super Auto, \$25.00. 44 S. & W. Special 5" barrel, perfect, \$30.00. Stamp for reply. No trades. W. A. Sukalle, Tucson, Ariz. 7-35

WEBLEY IRISH CONSTABULARY 455 caliber, 4 1/2" barrel, perfect. Regular price \$40.00, special \$24.00. Hudson, R-52, Warren Street, New York. 7-35

COLTS 25 AUTO pistols: fair, \$6.00; good, \$8.50; very good, \$10.00. Colt 32 Auto pistols: fair, \$7.50; good, \$10.00; very good, \$12.50. Colt 45 Auto pistols: good, \$15.00; very good, \$17.50; excellent, \$22.50. S. & W. Regulation Police Model 32 Long cal.: very good, \$15.00; excellent, \$17.50. Luger pistols: very good, \$15.00; excellent, \$18.00. We carry a large stock of rifles, shotguns, pistols, and revolvers of all makes and calibers. Write us for information. Big Ben, 179-181 Third St., San Francisco, Calif. 7-35

WEBLEY MARK VI British Service Model 455 caliber, very good. Regular price \$50.00, special \$21.00. Hudson, R-52, Warren Street, New York. 7-35

COLT FRONTIER and Bisleys models, Colt 38 Super, Pistols, Revolvers, Shotguns and Rifles. New list ready. T. C. Hansen, Canby, Kans. 7-35

MODEL 21 Winchester shotguns in factory grease, list price \$73.40; while they last, \$35.00 each. We have them in 12-30 modified and full, 12-28 modified and full, 12-28 cil and mod., 16-26 modified and full and 20-26 Mod. and full. Model M28 Savage pump guns, factory grease, 12-30 full, \$32.00 each. H. E. Roehrs, Closter, N. J. 7-35

WINCHESTER M/21 double hammerless 12-16-20, new, \$36.70; 12-28 ejector, \$43.50; Savage 45 Bolt 30-06, \$18.00. Albre perfect sling keeper, 25¢ postpaid. Kirkwood Bros., Inc., 23 Elm St., Boston, Mass. 7-35

10 Copies U. S. Cartridge Co. Catalogues Firearms collection, new condition, \$3.50 each. Savage model 20, receiver sight, caliber .250-3000, good, \$20. Frank Wesson Sporting Rifle, .38 rim fire, perfect bore. Very good, \$7.50. Winchester Automatic 12-26 cylinder. Very good, \$22.50. Winchester Automatic 12-26 full, \$29.50. C. G. Haenel D. B. Hammerless gun 16-30, triple lugs, check piece, high grade, 6 lbs., nitro barrels, excellent, \$27.50. Parker U. H. 12-26 excellent, \$48.50. Smith, Skeet Special 12-26 Single. Selective trigger ejectors, pad, excellent, \$65. Winchester 54 caliber 30-30, 48 rear, sling, excellent, \$22.50. Iver Johnson, Hercules 20-28, very good, \$18.50. Winchester Auto-loading, caliber .351. Excellent, \$24.50. Lefevre trap No. 3, 12-32, excellent, \$24.50. Winchester, model 12-12-26, full, very good, \$29.50. We want good used Guns, Rifles, Target Revolvers, and Pistols, Telescope Sights and Cameras, etc. M. & H. SPORTING GOODS CO., 512 Market St., Philadelphia, Pa. 7-35

SLEEPING BAGS

An all wool filled 7 1/2 lb., 96-in. zipper bag with Army Duck outer covering, brown satine lining. Complete list free! **\$8.95** Postpaid
J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

SELECTED TARGET AMMUNITION.
Rifles, Reloading Supplies, Shooting Coats.
Discounts to N. R. A. members. Badger Shoot-
ers Supply, Owen, Wis. 7-35

10% DISCOUNT on Guns and Sporting Goods.
Illustrated Catalog dime. Refunded first order.
Zeppelin Arms Company, Dept. 15, East Akron,
Ohio. 7-35

ALL BRAND NEW—Single barrel LeFever
Trap gun, ventilated rib, 12 gauge, 32", \$27.50.
LeFever single hammerless, 12 gauge, \$13.75.
Ithaca Field grade, double hammerless, 12
gauge, \$29.95. Smith Field grade, \$31.00.
Hudson, R-52, Warren Street, New York. 7-35

AMMUNITION & RELOADING SUPPLIES

GUN CLUBS, ATTENTION!! OUTDOORS
Magazine is now running the most complete and
comprehensive illustrated series of articles on
Reloading ever published in any sporting maga-
zine. This series, in addition to the gun de-
partment, is edited by Philip B. Sharpe, Life
Member of the N. R. A. The Reloading series
began with the January issue and all *American*
Riflesman readers sending in only ONE DOL-
LAR will receive *OUTDOORS* Magazine for a
full year—twelve copies crammed from butt-
plate to muzzle with special things of interest
to the Sportsman. Your subscription will be
entered immediately and back copies commencing
with the January issue will be sent to you
free of charge **WHILE THEY LAST** that you
may have the complete Reloading series for
your files. Clip this ad and mail with \$1.00 to
OUTDOORS MAGAZINE, 333 No. Michigan
Ave., Chicago, Ill., Dept. N. 7-35

COPPER COATED .22 W. R. F. Lesmoke
cartridges, extra special, \$4.00 per thousand.
1/2 million cartridges. Stamp for List. Hudson,
R-52 Warren Street, New York. 7-35

CUSTOM Ammunition hand-loaded to your
specifications in any standard caliber. E. J.
Moxley, Milestrip Road, Orchard Park, N. Y.
7-35

A LIST of the 538 different cartridges and
shells in my collection for 25 cents (coin).
Chas. Shattuck, Cherry Creek, N. Y. 7-35

HANDLOADED AMMUNITION—Deer
loads, etc. 30-06, 30-40, 30-30, Hornet. Raymond
Murphy, 300 10th St., Sacramento, Calif. 7-35

AMMUNITION PRICED BY THE THOU-
SAND—22 W. C. F. (used in S. S. Hornet)
black powder, \$8.00; smokeless, \$12.00; 25-20
S. S. black powder, \$12.00; smokeless, \$16.00.
Hudson, R-52 Warren Street, New York. 7-35

NEW LOVERIN gas checked bullets; Bond
M31910, F257730, F257616. Very accurate.
Tools, Sights. Write: Guy Loverin, Lancaster,
Mass. 7-35

QUALITY CAST BULLETS. Sized, lubri-
cated, gas-checked: Squibb, 80¢ per hundred;
Krag 308284, 85¢ per hundred. Also revolver
bullets. Jas. D. Cummings, 2268 W. Pico St.,
Los Angeles, Calif. 7-35

CARTRIDGE SALE. 30-06, \$2.00 the 100.
30-06 Boat-tail, \$3.00. 45 Auto, \$2.25. New
Remington 34 repeater, \$10.50. D. O. Amatutz,
Ransom, Kans. 7-35

GUNSMITHING & SUPPLIES

HUBALEK SPECIAL MATCH BARRELS.
\$36. Complete fitting, quick service, finest ac-
curacy guaranteed. Rifle returned in 10 days.
Your 52 rebarreled with new Winchester 52
barrel, \$15. Any caliber single shot rifle relined
to 22 I. R. Fine target rifles made to order,
using Ballard, B. S. A., Martini or 52 actions.
Send for folder. A. Hubalek, 1167 Myrtle Ave.
Brooklyn, N. Y. 7-35

PERMABLU guarantees factory type re-
blue. Not paint. Gunsmith's favorite. Never
fails. 50¢. Easy instructions. Permablu Co.,
Dept. 100, Davenport, Iowa. 7-35

GUNSTOCK BLANKS: Plain, \$1.00; fancy,
\$2.50; Sporters: plain, \$1.50; fancy, \$3.50. O.
M. Friddell, 227 Davis, Findlay, Ohio. 7-35

MATCH BARRELS fitted to your actions.
Prices reasonable. Redfield sights. Lyman
sights and telescopes. Pecker and Bausch &
Lomb telescopes. 10X Shooting coats. Eric
Johnson, 149 Helen St., Hamden, Conn. 7-35

REMINGTON .38 ROBERTS
Model 308, bolt action, 24-in. barrel, \$45.25; with
Lyman 45 receiver sight, \$55.25. The newest in fine
guns. Available in 30-06, etc.
Free! Army sling with each gun purchase.
J. WASHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

VAVER

Micrometer-Dial
SIGHTS



**"The
Answer to
the Rifleman's
Prayer"**

Better Scores That Bring
Home the Bacon—every
day is a good shooting day
with a VAYER.
The VAYER Micrometer Dial
Sight offers absolute accuracy, rapid
adjustment and a means for calibrat-
ing rifle for any ammunition.

New Principle—New Performance

Operated by Frusto Conical Spiral Leads that
give a positive adjustment that cannot "back-
lash," and provided with 7 instantly interchange-
able Multi-Aperture Discs, the VAYER assures
greater accuracy of adjustment and a clear-cut image
free from "cobwebs" . . . Quarter minute clicks for
elevation and windage. Has every feature of the finest
receiver sights plus Frusto Conical Lead accuracy.
For all popular makes of rifles.

FREE: Illustrated Bulletin N. R. A. 75
WITTEK MFG. CO.
4305 W. 24th Place, CHICAGO



PREPARE for the NATIONAL MATCHES!
A real micrometer. Made for us by America's foremost
precision tool manufacturer. Size 3 3/4". Price, \$5.
WESTCHESTER TRADING POST
Major William E. Trull, Mount Vernon, N. Y.

SPEED ACTIONS fitted to Winchester 52 old
and new model, Winchester 54, Springfield 22's
and 30's, Remington 30-S, Mauser Rifles. Short-
ened firing pin fall, no forward or after creep of
trigger, adjustable trigger pull. NEW HART
SCOPE STAND adjusted for height while in
shooting position. HART STA-PUT Target
Rifle Sling, the one sling that says put. Width
1 1/4 inches. HART PREMIER Sporting Sling,
can be adjusted for carrying without detaching
any part, also used for shooting. Widths 7/8
and 1 inch. HART "MULTIPLE" Scope
Mounting. Scope can be changed from one to
more rifles without resighting after each gun
has been shot-in. RESTOCKING SPECIAL-
ISTS. CUSTOM GUNSMITHS. HART Arms
Co., 2185 E. 2nd St., Cleveland, Ohio. 7-35

VENTILATED RIBS installed on all types
of shotguns, automatics, pumps, overunders,
\$17.50 to \$25.00. Double barrels, \$25.00 to \$35.00.
Satisfaction guaranteed. John Crowe, Gun-
craft, 2713 Duncan St., St. Joseph, Mo. 7-35

GUNSMITHING, Restocking, rebluing, Flint-
locks. Reasonable. Bailey, Lisborn, N. H. 4-36

RELINING—All 22, 25, 32 rim or center fire.
Mauser, Springfield to 25 Roberts, 250-3000, 270.
Special barrels to your order. 22 Match, 25
Roberts, 270, \$35.00. All work guaranteed. F.
Surkamer, 54 W. Lake St., Chicago, Ill. 7-35

EXPERT gun engraving, folder on request.
Artistically engraved revolvers always on hand.
R. J. Kornbrath, 284 Asylum St., Hartford,
Conn. 6-36

GUNSMITHING SUPPLIES. Circassian
walnut blanks. Buffalo horn fore-end tips.
Buttplates, grip caps. Sling swivels, barrel
bands. Hunting telescopes and mounts. Cham-
bering reamers. Ask for circular. Jaul Jaeger,
130 Apsley Street, Philadelphia, Pa. 7-35

MODERNIZE—Restock Enfield, Springfield,
low rates. Finest workmanship. Rifle trunks
to order. Send for folder, photographs. Yel-
lowstone Gun Co., Columbus, Mont. 7-35

BLACK WALNUT Rifle and Gun Stock
Blanks. Circassian, Oregon Myrtle, Birds Eye
Maple, beautiful Burls. Cheapest prices, spe-
cial discounts for quantity orders. D. W.
Thomas, Box 184, Vineland, N. J. 7-35

NEW PICTURE of remodeled, restocked
rifles, with price list, 10¢. Trade your extra
equipment for a remodeling job. Warner &
Sons, 2512 Pleasant Valley Ave., Altoona, Pa.
7-35

GUNSMITHS AND AMATEURS. We
carry the most complete line of high grade
stock trimmings and Gunsmithing Tools and
Supplies. You can save money using our
goods. Liberal discount to Gunsmiths. Shoot-
ers Specialty Co., Box 792, Butler, Pa. 7-35

Extraordinary 50 Yard Accuracy —

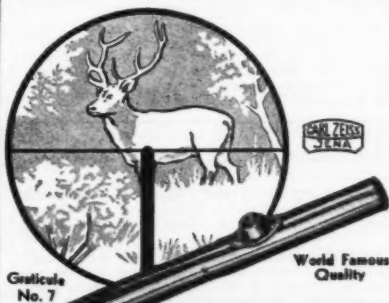


Many shooters have reported
that their 50 yard scores with the
H. & R. Sportsman Revolver are
equal to those obtained with a
single shot pistol.

The unselected, full size 50 yard
machine rest groups shown above
indicate the extraordinary accu-
racy of the Sportsman revolver
and show why such remarkable 50
yard shooting is being done with
these guns.

Send today for folder SA
(Please mention RIFLEMAN)

**Harrington & Richardson
Arms Co.**
Worcester, Mass.



ZEISS
RIFLE SCOPES
SPOTTING SCOPES
BINOCULARS

At leading dealers
Write for literature

CARL ZEISS, Inc.
Dept. TZ
405 Fifth Avenue
New York
798 So. Hill St.
Los Angeles



NEW .25 Roberts Get Yours

Standard, Medium
or Heavy... By Having
GRIFFIN & HOWE Rebarrel Any .30/06 Rifle

Send us any suitable .30/06 or 7 mm. rifle to rebarrel for the new .25 Roberts (.257 Remington-Roberts) cartridge. Supremely accurate, high speed, long range, taking all small game and varmints from woodchucks to deer. Velocity with 87-gr. bullet, 3,300 f.p.s. Other bullets 100 and 117-gr. You'll have a G. & H. fine alloy steel barrel—either 24" or 28", standard, medium or heavy weight, latter with standard blocks for Fecor or Lyman scope sight. Bored and chambered to fine target tolerances. If you wish some other caliber, or special work on the stock, we provide it. Some have us reshape and equip stock in our sporting style—others order a complete new G. & H. target stock with high comb. Write us NOW and get your rifle before the Fall rush. Say if you have complete rifle or action only.

We specialize in furnishing the best target and hunting telescope sights and mounts. Consult us. Folder Free.

FREE folders give details on Griffin & Howe fine rebuilt rifle with various actions.
GRIFFIN & HOWE, INC.
Makers of Fine Rifles
202-R E. 44th St., New York

HANDEE
Tool of 100 Uses



Grinds, routs, drills, carves, sharpens, cuts, engraves. Over 100 wheel shapes available. Fits the hand perfectly. Weighs 1 pound. For use at home, in the shop or taking to the job. Be away with a new hand work! A.C. or D.C., 110 volt, 18,000 r.p.m.

Order on 5-day trial. Satisfaction guaranteed. Ask for FREE booklet.

\$10.00 and up
to be paid U.S.A.
with 3 wheel shapes free. Order today.

Chicago Wheel & Mfg. Co., Dept. 26, 1183 W. Monroe St., Chicago, Ill.

ENGRAVING, Carving, Guns, Medals, Trophies, Ornamental Letterings, Designing. Herbert Hilton, Expert, 819 Capitol Park Bldg., Detroit, Mich. 7-35

\$1.00 EACH, Springfield Rifle Barrels, 30 caliber, second hand, limited supply. Weil's Curiosity Shop, 20 S. Second St., Philadelphia, Pa. 7-35

EXPERT RESTOCKING, checkering, very reasonable, photo, details, stamp. Beautiful Bakelite grip caps, all sizes, 50¢. Hand-made, solid type, trigger guards for 22 bolt actions, inletted into stock. Elmer Key, Chelsea, Okla. 7-35

30-06 BARRELS, genuine 1903 Springfield Service, poor, \$25 each, \$2.00 dozen with sight bases. Fixed studs, \$1.00 each, \$1.00 dozen. Springfield 45-70 Carabines, excellent, \$4.00. Remington 30 cal. rifles, good, \$2.00. Robert Woerner, 7129 Montague St., Philadelphia, Pa. 7-35

CHROME NICKEL STEEL relining of rifle barrels for 22 caliber cartridges. Charles A. Diller, Lock Box 534, Dayton, Ohio. 7-35

MACHINE INLETTED rifle and shotgun stocks, finished stocks, any variety wood. Special stocks 52 Winchester your order. Barrel bands, butt plates, quick detachable swivels, rifle and shotgun cases. Stamp for list. Howard F. Hawk Gun Co., Reading, Pa. 7-35

BINOCULARS, SCOPES, SIGHTS & CAMERAS

RIFLE TELESCOPE SIGHTS; telescope mounts; binoculars; duplicating machines. (List 3¢.) Robert W. Knight, Seneca Falls, N. Y. 5-36

BINOCULARS CLEANED AND REPAIRED. Alignment corrected to 1/1000 radian on our special collimator. Mail your glass for estimate. Mirakel Optical Co., Mount Vernon, N. Y. 11-35

\$6.25 English Rifle scope, three power with focusing adjustment and hair lines. Easily mounted. Money refunded if unsatisfactory. Weil's Curiosity Shop, 20 S. Second St., Philadelphia, Pa. 7-35

BUY YOUR ROSS British Telescope sight when visiting Canada and save duty. Greater light gathering power and actual field. Also Ross Binoculars and Gibbs guns and rifles. 10¢ in stamps for folders. Townsley, Canadian and U. S. Agent, P. O. Box 93, Vancouver, Canada. 7-35

\$15.00 FRENCH Prismatic Binoculars, 8 power, with leather case. Cost \$45.00, guaranteed. Big selection telescopes, binoculars, field glasses and firearms. Write for list. Weil's Curiosity Shop, 20 S. Second St., Philadelphia, Pa. 7-35

BROWNING OVER-UNDER!
New Low Price! 12 Ga. twin single triggers. Banded rib and auto ejectors. 30" or 32" barrels. Trap or field stock. With vent rib. \$84.90. **\$69.75** Postpaid
J. WARSHAL & SONS, 1014 1st. Dept. B, Seattle, Wash.

TRADE IN YOUR GUNS, telescope sights, on Bausch & Lomb binoculars, spotting scopes, Zeiss, Eastman, Bell & Howell or any standard high grade Cameras, etc. Established 1914. National Camera Exchange, 5 S. 5th St., Minneapolis, Minn. 12-35

SCOPE USERS ATTENTION! If your scope needs new cross-hairs or repairing of any nature, get in touch with me. A. M. Reynolds, 434 Anthony St., Schenectady, N. Y. 7-35

WARNER SWASEY sights rebuilt into modern scope, good light, good definition, good workmanship, 5 or 7 power. Your sight and \$15.00. H. W. & F. Loney, Harding Road, Elkhart, Ind. 7-35

BAUSCH & LOMB Prismatic Spotting Scope, \$49.50, with a Badger Tripod Free. Badgers Shooters Supply, Owen, Wis. 7-35

UNION HUNTING SCOPE MOUNTS constructed exceptionally strong and accurate; price, \$9.00. Write for bulletin. Union Auto Specialties Co., Brookville, Pa. 7-35

SAMPLE AND USED BINOCULARS. Rebuilt and checked in our own factory. Full guarantee. Send for free list. Mirakel Optical Co., Mount Vernon, N. Y. 7-35

ACCESSORIES

LAVERY NON-SLIP SLING LOCK prevents sling slipping. **SIMPLE-SURE-PRIMA-MENT.** Send 25¢, stamps or cash, for yours. Give dealer's name and will include special offer unique rear right protector. Frank P. White Co., 703 3rd Ave., St. Minneapolis, Minn. 7-35

FACTORY SECONDS Recoil Pads \$1.00, postpaid. Complete with screws for attaching. You save \$2.25. Send outline of gun butt. Prompt delivery and satisfaction guaranteed. Incor. Mfg. Co., Terminal Bldg., Youngstown, Ohio. 7-35

BADGER SLING KEEPER, 35¢. The latest, the best, the one that will make you discard all others. Badger Shooters Supply, Owen, Wis. 7-35

UNIVERSAL SCOPE STAND for rifle and pistol shooters. Postcard for prices and information. Loder & Wilson, 1014 Cherry St., Erie, Pa. 9-35

GENUINE NEW MILLS WOVEN CARTRIDGE BELTS, nearly all calibers except .30. Also shell belt 410, 28, 20 gauges. Extra special, \$1.00 each. Hudson, R-52 Warren Street, New York. 7-35

K-1 CASWELL Target Carrier, \$12.50 for 25 foot; \$13.75 for 50 foot and \$14.50 for 75 foot gallery. Special ballbearing type, designed for the home or club gallery. Caswell Shooting Gallery Equipment Co., Anoka, Minn. 7-35

RELOADERS—Why take chances on eye INJURY or BLINDNESS? Check your reloaded .30-06 cases with the new WILSON cartridge case gauge. Indicates cone to head length or over, all length at a glance. Price, \$4.25, postpaid. Send stamp for illustrated circular. L. E. Wilson, Wilson Bros., Cashmere, Wash. 7-35

NEW—SENSATIONAL RIFLE and skeet shooting coats at amazing low cost. Write today for free description. 10-X PRODUCTS, Dept. 8, Des Moines, Iowa. 7-35

BADGER TRIPOD SCOPE STAND. Conventional design, \$4.35. Jointed extension for kneeling and sitting, \$1.50. Badger Shooters Supply, Owen, Wis. 7-35

\$2.00 NEW Decapping and cleaning tools for small arms cartridges with description, carrying case. Cost Government, \$10.00. Guaranteed or money refunded. Weil's Curiosity Shop, 20 S. Second St., Philadelphia, Pa. 7-35

SMITH & WESSON REVOLVER CLIPS for 45 Auto cartridges, \$1.00 dozen pairs. Hudson, R-52 Warren Street, New York. 7-35

C-5 TARGETS. Sample and price list for 5¢ stamp. Complete small bore and pistol targets. Improved .22 and .30 Scope Registers. Sample for stamp. Outlook, Gresham, Oregon. Target Manufacturers. 7-35

PRACTICE IN YOUR BASEMENT. Liberal sample assortment 25 ft. rifle, slow and rapid fire pistol targets quarter. Zeppelin Arms Co., Dept. 15, East Akron, Ohio. 7-35

CLOSING OUT—328 Pairs slightly imperfect assorted pearl handles for Colt or Smith & Wesson revolvers. State models wanted. Hudson, R-52 Warren Street, New York. 7-35

BARGAINS IN U. S. ARMY EQUIPMENT. Twenty cartridge magazines for Springfield and other rifles, new, \$1.25. Army leather gun slings: new, \$.65; used, \$.25. Army pistol belts: new, \$.65; used, \$.35. Cartridge belts: new, \$1.00; used, \$.50. Signal Corps buzzer-telephone sets in leather case, slightly used, \$5.00. Army "Stoppani" Compasses in wooden cases, new, \$3.95. Prices prepaid. Send for free catalog. Lucke-Kiffe Co., Inc., 523 Broadway, New York City. 7-35

RID-JID TELESCOPE STAND, won't shimmy, lays close to the gun barrel, eliminates moving body to see through scope. Easily adjusted, light weight, black finish. \$4.00 prepaid. Money returned if not delighted with purchase. Edin Hiltz, 915 Washington Ave., So., Minneapolis, Minn. 7-35

HANDSOME PISTOL GRIPS to order. Catalin-Ivory, rare woods, \$3.00. HOLSTERS, heavy oil tanned, laced, \$2.50 up. Magnus, 1104 East 46th St., Chicago, Ill. 7-35

AUTOGRAPHED COPIES, Howe's "The Modern Gunsmith," \$15.00 per set. Order direct from Jim Howe, National Target & Supply Co., 1249 25th St. N.W., Washington, D. C. 7-35

ANTIQUES & CURIOS

INDIAN RELICS, Beadwork, Old Guns, Curios, Coins, Minerals, Fossils, Catalog and Arrowhead 6¢. Vernon Lemley, Northbranch, Kans. 7-35

WAR RELICS for Clubhouse or Den. Vickers Aircraft Machine Guns; cost Government \$700; rendered unserviceable without marring. Only \$7.75 each, f. o. b. N. Y. Sent C. O. D. on payment of \$1.00. Weight 33 lbs. Fiala Outfits, 47 Warren St., New York. 7-35

ANTIQUE ARMS bought, sold, exchanged. Colts of any period wanted, particularly engraved models and those with ivory grips. Lists available. Stephen Van Rensselaer, Peterborough, N. H. 7-35

RARE BARGAINS!! Antique shotguns, rifles and pistols. Stamp for list. Hudson, R-52, Warren St., New York. 7-35

FINE ASSORTMENT of Colt and other antique arms in unusual condition for discriminating collectors. List. Calvin Hetrick, New Enterprise, Pa. (Address for July-Aug.) 7-35

PATENTS

PATENTS—Low cost. Easy terms. Book and information free. Highest references. L. F. Randolph, Dept. 370, 724 9th St., Washington, D. C. 7-35

STAMPS

FREE PACKET of Stamps and Perforation Gauge to Applicants for general approvals. Hoyt, 42 Cornhill, Boston, Mass. 7-35

MISCELLANEOUS

CANADA, THE RIFLEMAN'S PARADISE. Its true picture is given you in the pages of *Rod and Gun in Canada*. Canada's national outdoor-life magazine. Each issue is packed with honest-to-goodness yarns of hunting and fishing in the Dominion, which has its second to none. Real stories that men can appreciate and a gun department unexcelled. Send \$1 for 6 months' trial or \$2 for year to Rod and Gun, P. O. Box 125, Sta. A, Montreal, Canada. 7-35

BALLISTICS!! TTT/TRAJECTORY ALLOWANCES AND TWA/WINDAGE. "Handy Field or Study Booklets for Riflemen." Price, 75¢ each. Sportsman's Scientific Service, Aurora, Ill. 7-35



"THE FIRST SHOT FOR RECORD is a V"

WHEN you lie down at the firing point, dig your elbow into the ground, peer through the sights at the target, away out there in the dancing mirage—*that's when you want everything to be right.* Your eyes, your nerves, your sights, your barrel, your action, your cartridge AND its powder! You've got a lot of shots to fire and you want every shot

exactly like the others. You want—and you've got to have—uniformity.

The story of du Pont powders has been entwined in the nation's history of all rifle shooting. For years at Creedmoor, at Sea Girt, and on the mile-long firing line at Camp Perry, du Pont powders have stood by the boys. They are uniform.



E. I. DU PONT DE NEMOURS & CO., INC. Sporting Powder Division WILMINGTON, DELAWARE



Winners of 1st. and 3rd. in the Hearst Trophy Match, 6th. Corps Area. Two teams of the Western Military Academy, Alton, Illinois. *Left, front:* Boudeman. *Left, rear:* Sperber, J. Latham, Narden, R. Latham. *Center:* Capt. C. H. Moore, Sgt. R. J. Carr. *Right of Center:* R. Johnson, Allen, Billstone, Von Hoffman. *Right, front:* Castles.

They Win in the West with *Western*

In the West, as everywhere else, riflemen using Western are *winning*! Why not try this super-accurate ammunition? It will add points to your scores—consistently. Try Super-Match .22 L.R. for super-close grouping! Smokeless powder. Lead lubricated bullet.

Hearst Trophy Match 6th. Corps Area

Shooting Western, one of the rifle teams of the Western Military Academy, Alton, Illinois, won the 1935 Hearst Trophy Championship of the 6th. Corps Area, Military Schools division. Score, 872. Another team of the same school placed third with Western. Score, 856.

V. J. Tiefenbrunn, St. Louis, Winner of the 1935 Missouri State Individual Small Bore Championship and several other events at the Missouri State Matches.

Missouri State Rifle Matches

V. J. Tiefenbrunn, St. Louis, "stole the show" with Western at the 1935 Missouri State Rifle Matches, Jefferson City, May 11-12.

Shooting Super-Match he won the Missouri State Individual Small Bore Championship, scoring 192x200 over the 200-yard range, on the decimal target. Also the 100-yard Sitting Championship with a 99, and the 50-yard Kneeling Championship with a 97. Shooting Western .30-calibre Match ammunition, he won the Individual Civilian Championship, score 143—placed second by a single point in the Open Individual—and won the N.R.A. Members' Match, score, 143.

The teams which placed 1-2-3 in the High School Dewar Team Match all shot Super-Match! 1st—Hadley High School, St. Louis. Score, 1,557. 2nd—Cleveland High School, St. Louis. Score, 1,545. 3rd—University City High School, St. Louis. Score, 1,540.

WESTERN CARTRIDGE COMPANY
Dept. G25, East Alton, Illinois.

Western

SUPER MATCH

22 LONG RIFLE SMOKELESS



Western Cartridge Company,
Dept. G25, East Alton, Illinois.
Send complete details of Western Super-Match .22 Long
Rifle Smokeless cartridges.

Name.....
Address.....
Post Office..... State.....

es
w"
life

uri
ip,
on
ng
rd
ng
he
ip,
int
A.

gh
er-
is.
ol,
ity

TY

